REDRING

Product Directory

www.redring.co.uk

Xpelair Product Directory

Creda Product Directory

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INVESTORS IN PEOPLE

BEAB Approved Factory

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In view of the APPLIED ENERGY PRODUCTS LIMITED policy of continuous product improvement, the right is reserved to change specification, colour range and prices of the models and items illustrated or described in this publication. You should therefore check current details with your REDRING sales representative.

R030 July 2005

Redring Distributor

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REDRING

Product Directory

www.redring.co.uk

water heating

shower systems

water boiling

commercial space heating

washroom solutions

Quality solutions for heating, air and water management

applied energy

Introduction

For over 30 years, Redring has been developing new products and technologies to ensure excellence in heating and control of water in addition to specialist heating products.

Hot water is an essential part of our lives. Precise temperature control and delivery on demand are essential – whether it's an invigorating shower, hot water for domestic, industrial and commercial applications or to centrally heat our homes – Redring provides the answer.

Where specialist heating is required, Redring offer a wide range of technologically advanced and innovative solutions. Not just in the UK, but globally and distributed worldwide.

The latest Selectronic thermostatic instant shower eliminates water temperature variations when the supply water pressure changes. Such a safety-conscious product is endorsed by the RNIB and is ideal for children and less-abled people too.

The Redring SB^2 and SB Professional range provides efficient, safer and more economical boiling of hot water for all kinds of environments.

For domestic heating, Dualheat combines the convenience of electrically generated hot water with the familiar comfort of wet radiator heating systems.

Not only does Redring offer an unbeatable product range, but as part of Applied Energy, home to Xpelair and Creda Heating, it is backed by support services second to none.

Our Specification Team is trained to give pre-sales advice on product selection. For after sales support we have both an in-house team that can offer advice over the phone and a team of service engineers for carrying out repairs and maintenance on-site.

So for the peace of mind you get from quality products and superior support, there's only one choice – Redring.

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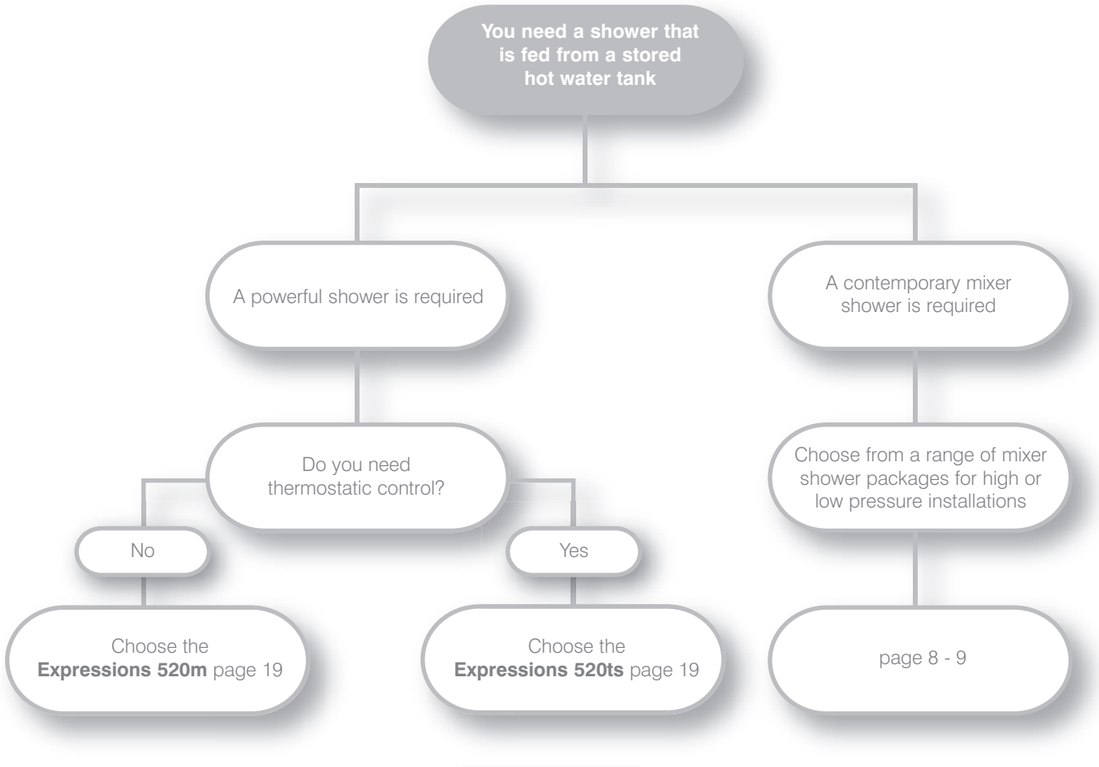
You need a shower that is fed from a stored hot water tank
A powerful shower is required
A contemporary mixer shower is required
Do you need thermostatic control?
Choose from a range of mixer shower packages for high or low pressure installations
No
Yes
Choose the **Expressions 520m** page 19
Choose the **Expressions 520ts** page 19
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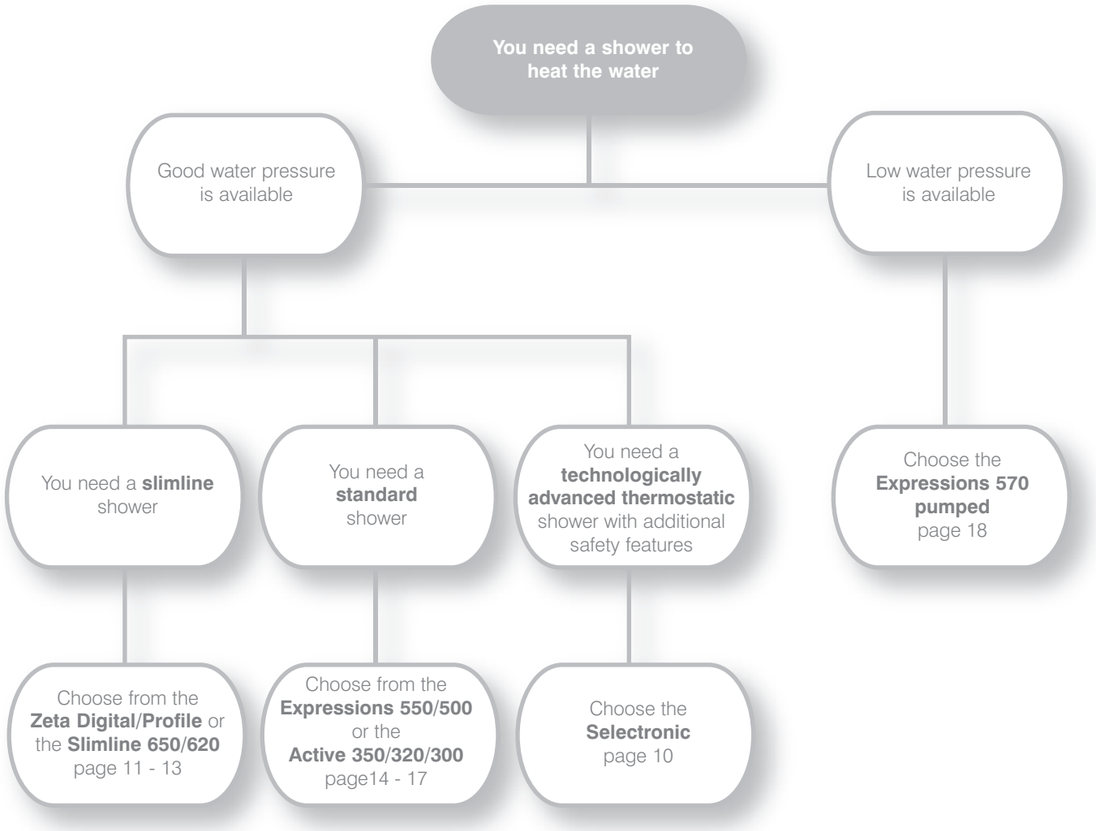
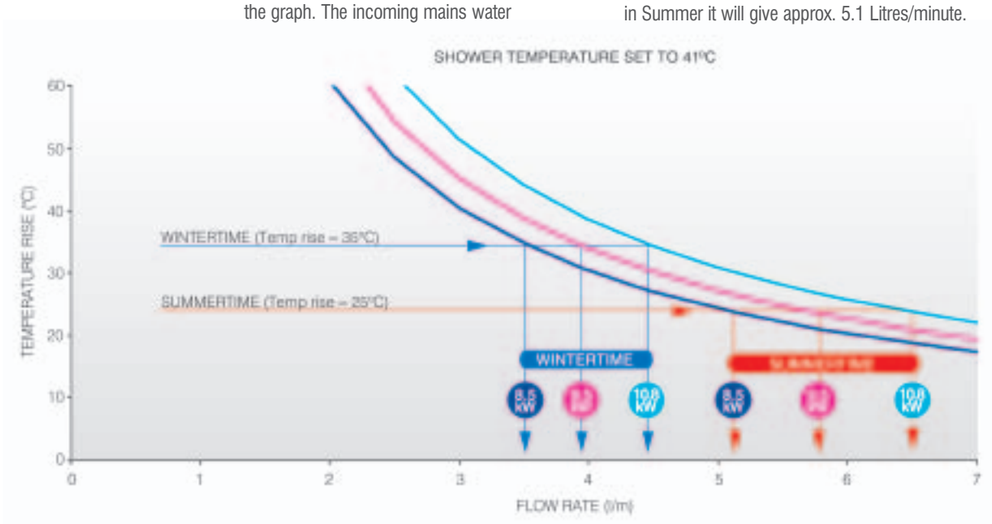

You need a shower to heat the water
Good water pressure is available
Low water pressure is available
You need a **slimline** shower
You need a **standard** shower
You need a **technologically advanced thermostatic** shower with additional safety features
Choose the **Expressions 570 pumped** page 18
Choose from the **Zeta Digital/Profile** or the **Slimline 650/620** page 11 - 13
Choose from the **Expressions 550/500** or the **Active 350/320/300** page14 - 17
Choose the **Selectronic** page 10

Choosing the right shower is vitally important. At Redring, our renowned customer support begins before you even buy one of our showers!
This selector should enable you to make a decision but, if you're spoilt for choice, please ring our customer techline on **08709 000430** or call our brochure hotline on **08709 000540** to request our dedicated showering literature.

Water flow and temperature graph:

The graph below shows the relationship between hot water flow and temperature rise obtainable from an instant electric shower. The different power loadings (available in the range) expressed in kilowatts are shown as curves on the graph. The incoming mains water temperature into your property can vary, on average, from 5°C in Winter to 20°C in Summer.

The graph shows a typical Winter and Summer time condition. In Winter the 8.5kW shower will give a flow rate of about 3.5 Litres/minute while in Summer it will give approx. 5.1 Litres/minute.



Thermostatic Mixers

Consistent, all year round shower performance in a range of models to satisfy individual bathroom style requirements.

WRAS APPROVED PRODUCT — 2 YEAR GUARANTEE

TBM1 .. 36594201 ..... Exposed thermostatic bar mixer TMV2
TBM2 .. 36594202 ..... Exposed thermostatic bar mixer TMV2
TBM3 .. 36594203 ..... Exposed thermostatic bar mixer TMV2
RTM ... 36594204 ..... Recessed thermostatic mixer TMV2
RTM2 .. 36594214 ..... Recessed thermostatic mixer TMV3

Key Features:

- Independent adjustment for both temperature and water flow rate
- Fine thermostatic control for comfort and safety
- All mixers are thermostatically approved to TMV2 with Mixer E offering enhanced thermal performance to TMV3 (NHS Estates DO8 requirements)*
- Stylish bar mixer or traditional recessed options
- Choice of through the wall or surface mounted accessories
- Range of spray head options available
- All mixers have a safety override button set to 38ºC
- 2 year guarantee (UK)
- WRAS approved

* TMV - Thermostatic Mixer Valve

Installation / Technical specification

- Minimum flow pressure (0.5bar for Mixer A): ... 0.1bar
- Maximum flow pressure: 5.0bar
- Maximum pressure loss ratio: (use pressure reducing valve if ratio is greater) ... 5:1
- Maximum hot water temperature at inlet: 85ºC
- Recommended stored temperature: 60ºC
- Minimum hot/blend temperature difference: 10ºC
- Factory setting @ 2bar equal pressures: 38ºC
- Hot water connection: ..... Left
- Cold water connection: ..... Right
- Inlet connections: (3/4" BSP on recessed model) ..... 1/2" BSP
- Flow delivery at minimum inlet pressure: 8 litres per minute (note that some accessories will reduce the flow rate)

Valid Options Matrix

Mixer	F	G	H	I	J	K
A					●	●
B	●	●	●		●	●
C	●	●	●		●	●
D	●	●	●	●	●	●
E	●	●	●	●	●	●

Note: accessory I is only required when mixer D or E is used with accessory J or K

Mixer Showers

Mixer	Short Code	Cat No.	Description
A	TBM1	36-594201	Exposed thermostatic bar mixer (0.5bar min)
B	TBM2	36-594202	Exposed thermostatic bar mixer (0.1bar min)
C	TBM3	36-594203	Exposed thermostatic bar mixer (0.1bar min)
D	RTM	36-594204	Recessed thermostatic mixer (0.1bar min)
E	RTM2	36-594214	Recessed thermostatic mixer (TMV 3 Approved) (0.1bar min)

Specification

Accessory	Short Code	Cat No.	Description
F - Chrome overarm kit	TTW1	36-594206	Classic overarm kit 8 inch rose chrome finish, through the wall kit (2bar required)
G - Shower head kit	TTW2	36-594207	Contemporary shower head and arm, high pressure, chrome finish, through the wall kit
H - Traditional shower head kit	TTW3	36-594208	Traditional shower head and arm chrome finish, through the wall kit (1bar required)
I - Outlet elbow	ELB	36-594211	Wall outlet elbow, chrome finish
J - Accessory kit	HRH	36-594210	Flexible hose, riser rail kit and handset
K - Accessory kit	ACCPK4	83-593804	Flexible hose, riser rail kit and handset
L - Pressure reducing valve	PR2 1	36-594212	Pressure reducing valve for unbalanced water supplies
M - Outlet adapter	N/A	N/A	Supplied with F, G & H accessories and required when using mixers B or C

The new thermostatic **Selectronic range** has been designed to be Redring's most technologically advanced electric instant shower. It combines accurate water temperature control and simple to use controls. This safety-conscious design is endorsed by the Royal National Institute of the Blind and is ideal for children, the elderly and less-abled people.

A: Selectronic Accessory Range

Curved multi-mode, rub clean handset, 0.45m riser rail with fully adjustable handset holder, soap dish and 1.25m convoluted shower hose (white & grey)

B: Selectronic Plus Accessory Range

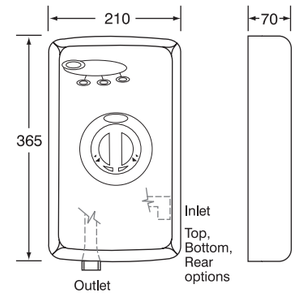
Curved multi-mode, rub clean handset, 1m riser rail with fully adjustable handset holder, soap dish, 2m easy clean smooth shower hose and grab rail (plastic)

C: Selectronic Style (shown) Accessory Range

Curved multi-mode, rub clean handset, 0.45m curved riser rail with fully adjustable handset holder, soap dish and 1.25m convoluted shower hose (white & satin chrome)

Dimensions Selectronic

The **Zeta range** is Britain's slimmest wall mounted electric instant shower. Utilising a unique tubular heat exchanger, the Zeta gives you the most amount of usable space in the shower.



Dimensions Zeta Range

Key Features:

- Thermostatic electric shower
- The model shown is the Selectronic Style. Also available in Standard and Plus (for care sector applications) variations
- Microprocessor thermostatic control for comfort and safety
- Safe 40ºC temperature lock facility with override function
- Audible feedback response to commands
- Easy one-touch operation
- Large, easy to press tactile button operation
- Large LED readout and clear print
- Phased shutdown to ensure cool start for the next user
- Independent adjustment for both temperature and water flow rate
- Inclusively designed - RNIB product endorsement (exc. Style)
- High contrast push buttons, showerhead and clamp adjustment components for visibility (on standard and Plus models)
- Premium accessories with multi-mode shower handset
- First electric shower to be awarded BEAB CARE approval

Key Features:

- Instant electric shower
- Ultra slim profile
- Fully temperature stabilised
- Overheat protection
- Push buttons for on/off power selection
- Electric solenoid operation on/off
- 3 power settings
- Temperature and flow control with single turn valve
- Electronic phased shutdown
- Unique secret-till-lit display for power level, low flow and overheat

Features exclusive to the Zeta Digital:

- Polar white finish with chrome details
- Full set of chrome accessories including premium wide spray multi-mode handset
- Electronic digital temperature indicator
- Digital "user protect" safety feature incorporating auto power adjust

Features exclusive to the Zeta Profile:

- Full set of accessories including premium wide spray multi-mode handset
- Polar white finish
- Illuminated temperature indicator

Zeta Profile

Specification

Product Reference	Short Code	Catalogue Number	Max Heat Setting (kW)	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Selectronic 8.5	SEL85S	53-557001	8.5	7.8 - 8.5	6 - 10mm²	35 amps
Selectronic 9.5	SEL95S	53-558001	9.5	8.7 - 9.5	6 - 10mm²	40 amps
Selectronic 10.8	SEL108S	53-559001	10.8	9.9 -10.8	10 - 16mm²	45 amps
Selectronic Plus 8.5	SEL85P	53-557005	8.5	7.8 - 8.5	6 - 10mm²	35 amps
Selectronic Plus 9.5	SEL95P	53-558005	9.5	8.7 - 9.5	6 - 10mm²	40 amps
Selectronic Plus 10.8	SEL108P	53-559005	10.8	9.9 -10.8	10 - 16mm²	45 amps
Selectronic Style 8.5	SEL85T	53-557010	8.5	7.8 - 8.5	6 - 10mm²	35 amps
Selectronic Style 9.5	SEL95T	53-558010	9.5	8.7 - 9.5	6 - 10mm²	40 amps
Selectronic Style 10.8	SEL108T	53-559010	10.8	9.9 -10.8	10 - 16mm²	45 amps

• Operating water pressure 1-10bar (14.5-145 psi) • Cable entries-top, bottom and rear (up to 16mm²) • Pipe entries-top, bottom and rear (on right hand side)
• Water connection-15mm plain shank (compression elbow/push in fitting not supplied) • Fully temperature stabilised • Fixing pack and instruction book supplied

*The third year of the guarantee is only available for products registered with Redring after purchase.

Specification

Product Reference	Short Code	Catalogue Number	Heat Setting (kW)	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Zeta Profile 8.6	Z8.6P	53-594515	4.8 or 8.6	7.9 - 8.6	6 / 10mm²	40 / 45 amps
Zeta Profile 9.6	Z9.6P	53-595515	4.8 or 9.6	8.8 - 9.6	10mm²	40 / 45 amps
Zeta Digital 8.6	Z8.6D	53-596515	4.8 or 8.6	7.9 - 8.6	6 / 10mm²	40 / 45 amps
Zeta Digital 9.6	Z9.6D	53-597515	4.8 or 9.6	8.8 - 9.6	10mm²	40 / 45 amps

• Operating water pressure 1-10bar (14.5-145 psi) • Water pressure operated power switch • 15mm plain shank for inlet compression connection • Top, bottom or rear cable entry
• Top, bottom or rear water entry • Comprehensive instruction booklet and template for ease of installation • Every unit is fully tested for safety and function • Fully temperature stabilised

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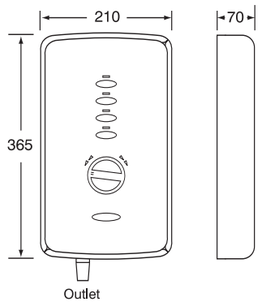
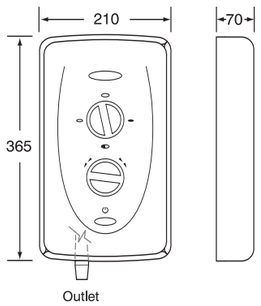
The **Slimline 650** combines all the great features of the 620 with the added convenience of a push button power selection facility. The phased shutdown feature ensures that temperatures are managed to deliver a cool and safe start up for the next user. For the ultimate in contemporary finishes, the 650 is also available in chrome – the **Slimline 650C**.

Slimline 650

The **Slimline 620** has an ultra slimline profile, generating more space in a shower cubicle. Packed full of features the 620 is an ideal choice for upgrading or replacing existing shower installations.



Dimensions Slimline 650 and 650C



Dimensions Slimline 620

Key Features

- Instant electric shower
- Ultra slimline profile
- Fully temperature stabilised
- Overheat protection
- Full set of polar white and chrome accessories including multi-mode handset with 3 position variable spray head
- Chrome with all chrome acessories
- Push button power selection and on/off
- 3 power settings
- Rotary flow/temperature control for set and forget operation
- Timed phased shutdown with flashing LED to ensure cool start up for next user
- LED power indication
- Multi-service points for ease of installation
- Unit also available in polar white (650) with chrome and 9.5kW rating

Key Features

- Instant electric shower
- Ultra slimline profile
- Fully temperature stabilised
- Overheat protection
- Full set of accessories including multi-mode handset with 3 position variable spray head
- Polar white finish
- Push button for on/off
- Rotary power select
- Rotary flow/temperature control
- 4 power settings
- Timed phased shutdown to ensure cool start up for next user
- Multi-service points for ease of installation
- Format ideal for upgrading or replacing of existing shower

Specification

Product Reference	Short Code	Catalogue Number	Heat Setting (kW)	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Slimline 650 8.5	R6508	53-557201	4.8 - 8.5	7.8 - 8.5	6 / 10mm²	40
Slimline 650 9.5	R6509	53-558201	5.0 - 9.5	8.7 - 9.5	6 / 10mm²	45
Slimline 650 10.5	R65010	53-559201	5.25 - 10.5	9.6 - 10.5	10 / 16mm²	45
Slimline 650 Chrome 9.5	R6509C	53-558202	5.0 - 9.5	8.7 - 9.5	6 / 10mm²	45

• Operating water pressure 1-10bar (14.5-145 psi) • Water pressure operated power switch • 15mm plain shank for inlet compression connection • Top, bottom or rear cable entry • Top, bottom or rear water entry • Comprehensive instruction booklet and template for ease of installation • Every unit is fully tested for safety and function • Fully temperature stabilised

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Specification

Product Reference	Short Code	Catalogue Number	Heat Setting (kW)	Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Slimline 620 8.5	R6208	53-555201	3.7, 4.8 or 8.5	7.8 - 8.5	6 / 10mm²	40 amps
Slimline 620 9.5	R6209	53-556201	4.5, 5.0 or 9.5	8.7 - 9.5	6 / 10mm²	45 amps

• Operating water pressure 1-10bar (14.5-145 psi) • Water pressure operated power switch • 15mm plain shank for inlet compression connection • Top, bottom or rear cable entry • Top, bottom or rear water entry • Comprehensive instruction booklet and template for ease of installation • Every unit is fully tested for safety and function • Fully temperature stabilised

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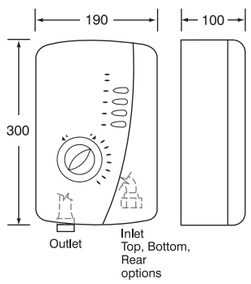
This shower combines all of the user-friendly features of the **Expressions 550** range with push-button power selection and phased shutdown features provided through electronic control.

Developed to provide the convenience of a push-button start/stop facility.
A simple push on the button starts the shower at the pre-set power and flow rate reducing the amount of adjustment required. To stop the shower, press the button again and the power and flow rate settings remain set for your next shower.



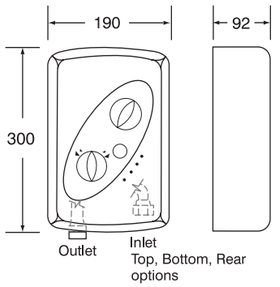
Dimensions Expressions 550

Key Features:

- Instant electric shower
- Fully temperature stabilised
- Overheat protection
- Full set of accessories including premium multi-mode handset
- Soft touch buttons for on/off power selection
- Electronic solenoid operation on/off
- 3 power settings
- Polar white finish as standard
- 8.5kW rating available with optional chrome accessories (as shown)
- Temperature and flow control with single turn valve
- Low pressure and overheat indicators
- High/medium/cold power indicators
- Electronic phased shutdown
- 7 level progressive LED/illuminated temperature indicator

Key Features:

- Instant electric shower
- Fully temperature stabilised
- Overheat protection
- Full set of accessories including premium multi-mode handset
- Push button for on/off selection
- 3 power settings
- Polar white finish
- 8.5kW and 9.5kW rating available with optional chrome accessories
- Temperature and flow control with single turn valve
- Low pressure neon indicator
- Power on/high/low and overheat neon indicator



Dimensions Expressions 500

Specification

Product Reference	Short Code	Catalogue Number	Heat Setting (kW)	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Expressions 550 8.5 White	EX5508	53-554515	4.8 or 8.5	7.8 - 8.5	6 / 10mm²	40 amps
Expressions 550 8.5 White & Chrome	EX5508WC	53-554516	4.8 or 8.5	7.8 - 8.5	6 / 10mm²	40 amps
Expressions 550 9.5 White	EX5509	53-555015	5.0 or 9.5	8.7 - 9.5	6 / 10mm²	45 amps
Extended control knob (see page 21)		83-593514	-	-	-	-

• Operating water pressure 0.7-7bar (10-100 psi) • Water pressure operated power switch • Standard 15mm inlet connection • Top, bottom or rear cable entry options
• Fixing pack and instructions supplied • Removable corner section for ease of installation

*The third year of the guarantee is only available for products registered with Redring after purchase.

Specification

Product Reference	Short Code	Catalogue Number	Heat Setting (kW)	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Expressions 500 7.2 White	EX5007	53-552515	4.5 or 7.2	6.6 - 7.2	4 / 6mm²	30 amps
Expressions 500 8.5 White	EX50085	53-553015	4.8 or 8.5	7.8 - 8.5	6 / 10mm²	40 amps
Expressions 500 8.5 White & Chrome	EX50085WC	53-553016	4.8 or 8.5	7.8 - 8.5	6 / 10mm²	40 amps
Expressions 500 9.5 White	EX50095	53-554015	5.0 or 9.5	8.7 - 9.5	6 / 10mm²	45 amps
Expressions 500 9.5 White & Chrome	EX50095WC	53-554016	5.0 or 9.5	8.7 - 9.5	6 / 10mm²	45 amps
Extended Control Knob (see page 21)		83-593514	-	-	-	-

• Operating water pressure 0.7-7bar (10-100 psi) • Water pressure operated power switch • Standard 15mm compression inlet connection • Top, bottom or rear cable entry
• Top, bottom or rear water entry • Fixing pack and instructions supplied • Removable corner section for ease of installation

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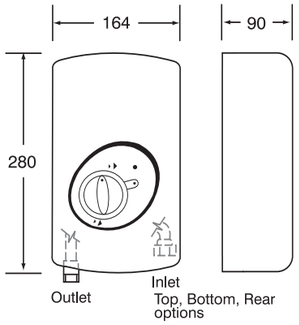
The **Active 350** allows accurate temperature selection. The integral water control valve provides on/off selection via the outer control lever, therefore the flow rate/temperature position can remain positioned at your favourite setting from your last shower.



Dimensions Active 350

Key Features

- Instant electric shower
- Fully temperature stabilised
- Overheat protection
- Full set of accessories including multi-mode handset
- Rotary lever control for on/off and power selection
- Electric solenoid operation on/off
- 3 power settings
- Polar white with chrome
- Temperature and flow control with single turn valve
- Separate controls for temperature adjustment and power selection
- Neon power indicator

Specification

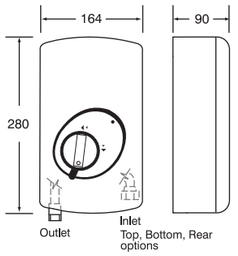
Product Reference	Short Code	Catalogue Number	Heat Setting (kW)	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Active 350 7.2	A3507	53-551515	4.5 / 7.2	6.6 - 7.2	4 / 6mm²	30 amps
Active 350 8.5	A3508	53-552015	4.8 / 8.5	7.8 - 8.5	6 / 10mm²	40 amps

• Operating water pressure 0.7-7bar (10-100 psi) • Water pressure operated power switch • Standard 15mm inlet connection • Top, bottom or rear cable entry
• Top, bottom or rear water entry • Fixing pack supplied • Shallow backplate designed for ease of installation

*The third year of the guarantee is only available for products registered with Redring after purchase.

The **Active 320** has a unique dual control combining power select and on/off rotary flow/temperature control. The **Active 300** incorporates a single lever rotary control providing water on/off and temperature/flow control. By simply positioning the control, the water temperature can be selected.

The **Active 300** is bottom entry only.



Dimensions Active 320

Key Features

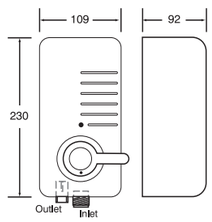
- Instant electric shower
- Neon power indicator
- Fully temperature stabilised
- Overheat protection
- Single mode handset
- Polar white finish

Features exclusive to the 320 Model

- Choice of 3 power settings
- Rotary controls for power and temperature selection
- Height adjustable riser rail and soap dish

Features exclusive to the 300 Model

- Easy grip on / off control lever
- Single fixed point handset holder



Dimensions Active 300

Specification

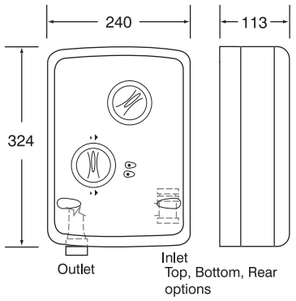
Product Reference	Short Code	Catalogue Number	Heat Setting (kW)	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Active 320 7.2	A3207	53-550515	2.7 / 4.5 / 7.2	6.6 - 7.2	4 / 6mm²	30 amps
Active 320 8.5	A3208	53-551015	3.7 / 4.8 / 8.5	7.8 - 8.5	6 / 10mm²	40 amps
Active 300 7.2	A3007	53-550115	7.2	6.6 - 7.2	4 / 6mm²	30 amps

• Operating water pressure 0.7-7bar (10-100 psi) • Water pressure operated power switch • Standard 15mm inlet connection • Top, bottom or rear cable entry
• Top, bottom or rear water entry (bottom entry Active 320 model only) • Fixing pack supplied • Shallow backplate designed for ease of installation

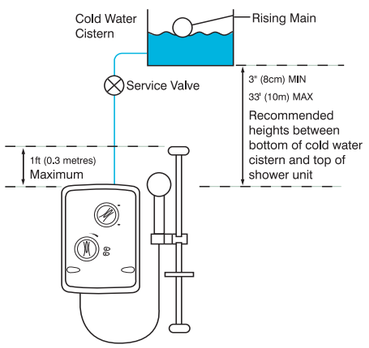
*The third year of the guarantee is only available for products registered with Redring after purchase.

The **Expressions 570** provides the convenience of electric showering in areas where no mains water or low water pressure prevents the use of normal electric instant showers. By combining a standard electric shower and booster pump, this shower can simply be connected to a cold water header tank.

WRAS APPROVED PRODUCT · 2 YEAR GUARANTEE · BEAB Approved · CE



Dimensions Expressions 570



Installation Expressions 570

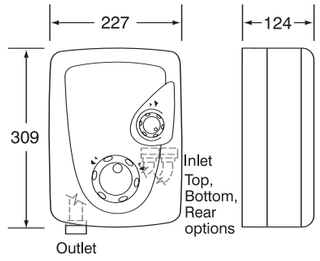
Note: Only for connection to cold water header tank.

Key Features:

- Instant electric shower with integral pump to ensure constant water flow
- Overheat protection
- Full set of accessories including premium wide spray multi-mode handset
- High and low power selection
- Polar white finish
- Rotary control for temperature/flow selection
- Power on and overheat neon indicators
- Ideal for installations where water pressure is insufficient for an instant shower
- Cold water cistern fed (not mains)

The **Expressions 520 Range** delivers luxury showering performance from an integrated booster pump and mixer valve in a simple to plumb installation. Taking both hot and cold water from the cylinder and header tank respectively, the integral pump delivers up to a maximum of 14 litres per minute. The **520TS** unit provides thermostatic temperature control.

WRAS APPROVED PRODUCT · 2 YEAR GUARANTEE · BEAB Approved · CE



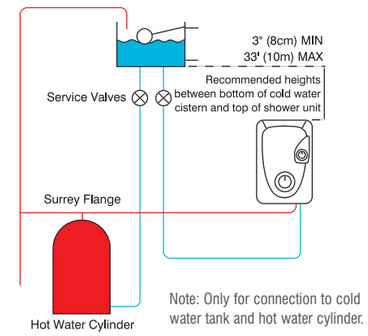
Dimensions Expressions 520 Range

Key Features of the Expressions 520M:

- Key features of the Expressions 520M:
- Manual power shower
- Hot water tank and cold water cistern fed
- Full set of accessories including premium wide spray multi-mode handset
- Polar white finish
- Rotary knob for temperature selection
- Rotary knob for start/stop and flow rate
- Adjustable temperature limiter with override feature
- Stable and consistent flow (no fluctuations)
- Delivers between 8 litres/min (economy) and 14 litres/min of water
- Easy to grip knobs with finger indentations

Additional features exclusive to the Expressions 520TS:

- Thermostatic power shower
- Thermostatic control and operation
- Thermostatic model offers added precision and safety
- Full set of accessories including premium wide spray multi-mode handset
- Polar white finish
- Adjustable temperature limiter with override feature



Note: Only for connection to cold water tank and hot water cylinder.

Installation Expressions 520 Range

The diagram shows the ideal installation with a separate cold feed. In some installations it may be sufficient to take the cold supply from existing pipework.

Specification

Product Reference	Short Code	Catalogue Number	Heat Setting (kW)	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Expressions 570 8.5	EXP5708	24-555515	4.8 or 8.5	7.8 - 8.5	6 / 10mm²	40-45 amps
Expressions 570 9.5	EXP5709	24-556015	5.0 or 9.5	8.7 - 9.5	6 / 10mm²	45 amps

• Cold water cistern fed • Operating water pressure: 3" minimum head to 33' maximum head (0.08m to 10m). • Top, bottom and rear water and cable entry options
• Fixing pack and instructions supplied • 15mm push-fit fitting for cold water inlet connection • The unit incorporates a 240V AC motor to boost flow
• Maximum flow rate: 7.0 litres/min.

Specification

Product Reference	Short Code	Catalogue Number	Flow Rate On Full	Mixing Chamber	Minimum Head	Maximum Head
Expressions 520M	EXM520WC	46-598415	14 litres / min	Manual Cartridge	3" or 0.08m	33' or 10m
Expressions 520TS	EXTS520WC	46-599415	12 litres / min	Thermostatic Cartridge	3" or 0.08m	33' or 10m

• Motor Rating - 140 watts @ 240V • Mains Supply - 220-240V supply • Top, bottom or rear cable entry • Top, bottom or rear water entry

Pick and mix from a stylish range of **Accessory Packs**, designed to enhance the performance and looks of any electric shower.

Accessory Packs:

Designed to fit any electric shower, the Standard Accessory Pack contains a multi-mode shower head, riser rail, brackets, handset holder, soap dish and hose. Available in white or white/chrome finish.

The EXP Accessory Pack contains a multi-mode shower head, riser rail, soap dish and high flow convoluted hose. Finished in white and chrome.

The Premium Accessory Pack is all finished in chrome and contains a multi-mode shower head, riser rail, soap dish and a high flow convoluted hose.

Premium Accessory Pack

Premium Accessory Pack

- Multi-mode shower head, riser rail, soap dish and high flow convoluted hose
- Finished in chrome

Replacement Shower Hoses:

- 1.25m or 2m hoses available in white or chrome.

EXP Accessory Pack

- Multi-mode shower head, riser rail, soap dish and high flow convoluted hose
- Finished in white and chrome

Shower Heads

- Multi-mode shower head packs to fit any electric shower
- Available in white and chrome

Standard Accessory Pack

- Multi-mode shower head, riser rail, brackets, handset holder, soap dish and hose
- Available in white or white/chrome finish

Extended Riser:

The 1 metre extended length riser rails bring the shower head & soap dish within easy reach of children, the elderly or less-able people and are available in white or chrome in 18 or 22mm diameter.

Care Pack:

Comprising a white 1 metre riser rail with a 2 metre hose. Riser rail available in either 18 or 22mm diameter.

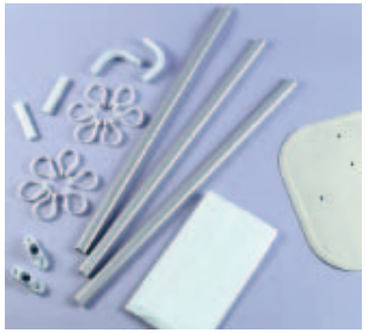
Curtain Rail Pack:

The versatile curtain rail pack is designed to fit virtually any shape of bathroom. Contains a white curtain, curtain rail, corner fittings, curtain clips & full fixing kit. Available with or without a non-slip bath mat.

Extended Shower Control Lever:

Ideal for children or the less-able, this extended shower control lever is interchangeable with **Expressions 500 & 550** and the **Active 320** & **350** showers.

Care Pack



Curtain Rail Pack

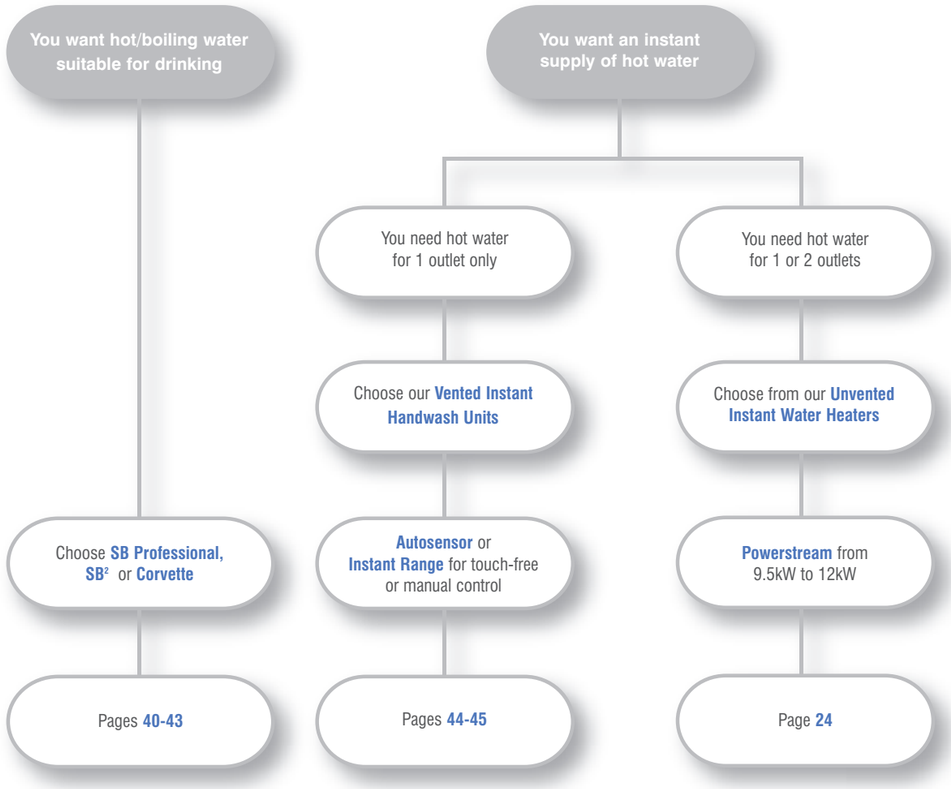
Extended Shower Control Lever

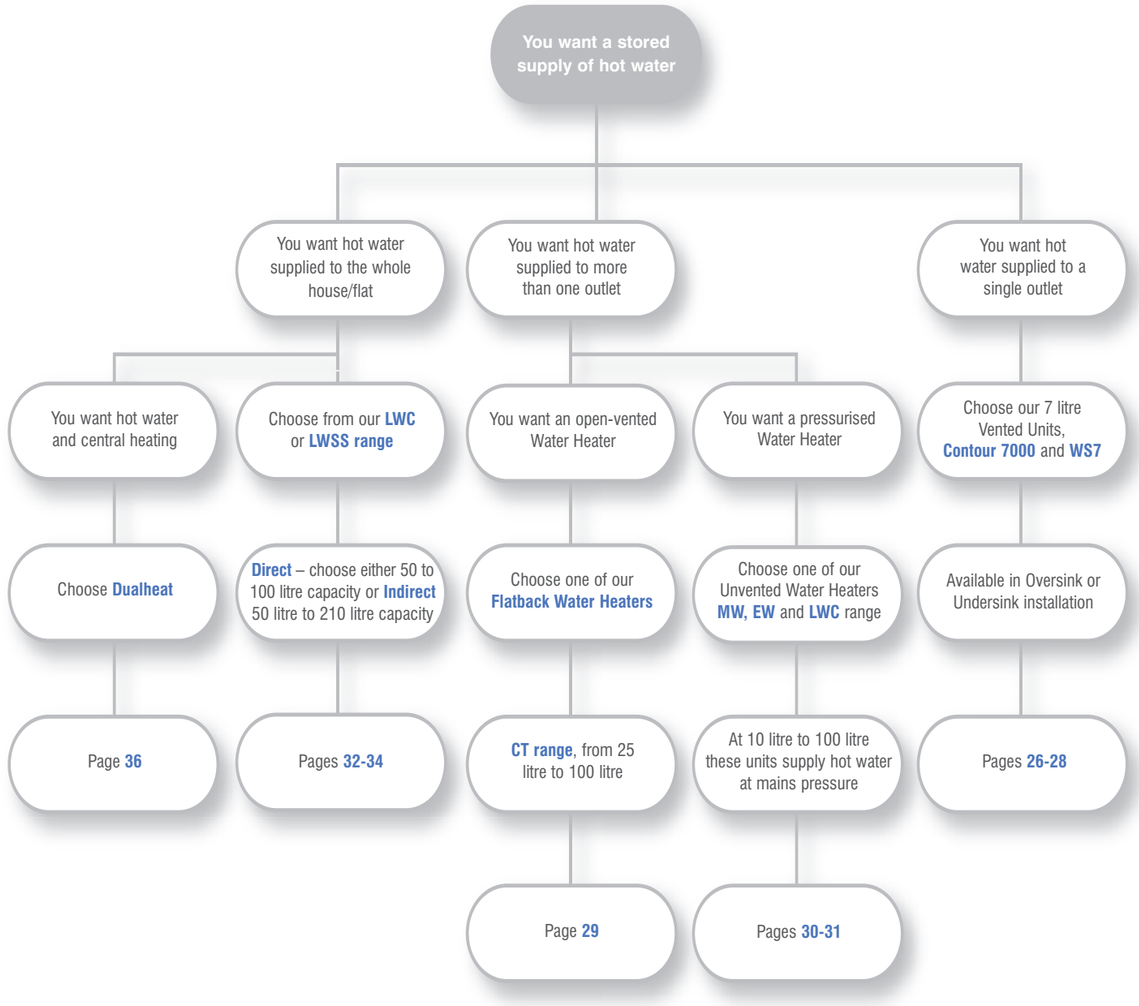
Specification

Product Reference	Colour	Catalogue Number	Short Code
Standard accessory pack with multi-mode handset	white	83-595301	ACCPK1
Standard accessory pack with multi-mode handset	white/chrome	83-595302	ACCPK2
EXP accessory pack with multi-mode handset	white/chrome	83-595303	ACCPK3
Premium accessory pack with multi-mode handset	chrome	83-595304	ACCPK4
Selectronic style accessory kit	white/matt chrome	83-593814	STLACC
Multi-mode shower head	white	83-595305	HEAD1
Multi-mode shower head	white/chrome	83-595306	HEAD2
1.25m convoluted hose	white	83-595307	HOSW
2.00m convoluted hose	white	83-595308	HOSW02
1.25m convoluted hose	chrome	83-595309	HOSC
2.00m convoluted hose	chrome	83-595310	HOSC2
Extended 1m riser rail (18mm dia.)	white	83-595311	RAILW
Extended 1m riser rail (18mm dia.)	chrome	83-595312	RAILC
Extended 1m riser rail (22mm dia.)	white	83-595313	RAILW2
Care pack with 18mm dia. 1m riser rail & 2m smooth white hose	white	83-792352	CP18
Care pack with 22mm dia. 1m riser rail & 2m smooth white hose	white	83-792354	CP22
Extended shower control lever	white	83-595314	LEV
Grab rail (plastic)	white	83-595315	PGR
Curtain & rail pack with fixings	white	83-792802	CU1
Curtain & rail pack with fixings & non-slip bathmat	white	83-792801	CU2

Water Heating Systems

Water Heating Selector


You want hot/boiling water suitable for drinking
Choose SB Professional, SB² or Corvette
Pages 40-43
You want an instant supply of hot water
You need hot water for 1 outlet only
Choose our Vented Instant Handwash Units
Autosensor or Instant Range for touch-free or manual control
Pages 44-45
You need hot water for 1 or 2 outlets
Choose from our Unvented Instant Water Heaters
Powerstream from 9.5kW to 12kW
Page 24


You want a stored supply of hot water
You want hot water supplied to the whole house/flat
You want hot water and central heating
Choose Dualheat
Page 36
Choose from our LWC or LWSS range
Direct – choose either 50 to 100 litre capacity or Indirect 50 litre to 210 litre capacity
Pages 32-34
You want hot water supplied to more than one outlet
You want an open-vented Water Heater
Choose one of our Flatback Water Heaters
CT range, from 25 litre to 100 litre
Page 29
You want a pressurised Water Heater
Choose one of our Unvented Water Heaters MW, EW and LWC range
At 10 litre to 100 litre these units supply hot water at mains pressure
Pages 30-31
You want hot water supplied to a single outlet
Choose our 7 litre Vented Units, Contour 7000 and WS7
Available in Oversink or Undersink installation
Pages 26-28

When specifying a hot water heater you need to consider the use that the hot water is going to be put to.
At Redring we have a comprehensive range of water heating products to suit all applications. Designed using the latest technology and built to Redring's exacting standards, the range covers both storage and point-of-use.
This selector should enable you to make a decision, but if you need further clarification, please ring our customer techline on +44 (0)8709 000430.

To assist in the effective selection of water heating products, the chart on the right shows how long it will take units of different kilowatt loadings to heat water.

i.e. It will take 9 minutes for a 3kW unit to heat 7 litres of water through 50°C.

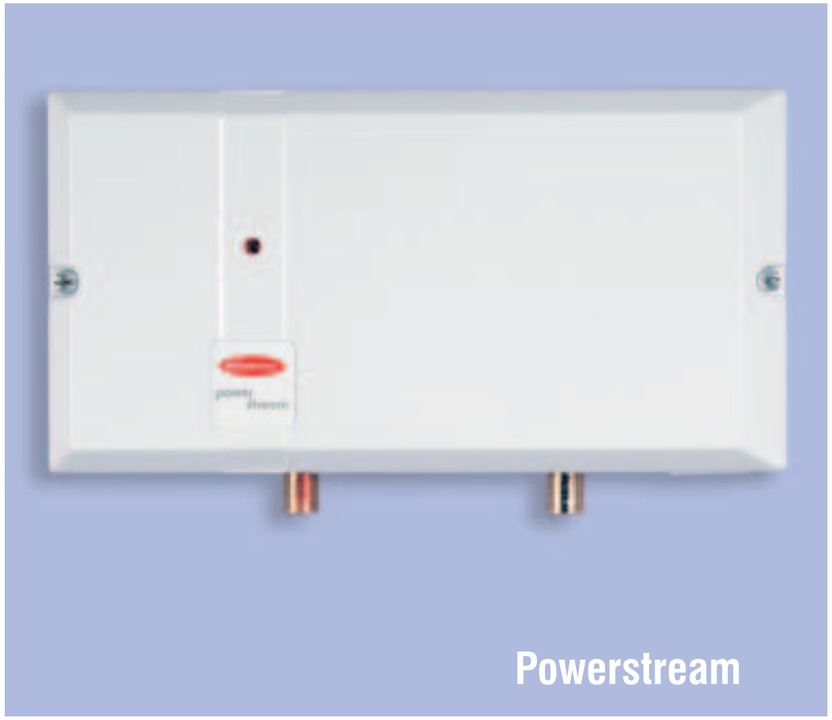
Litres heated through 50°C

Loading kilowatts	5	7	10	15	30	60	80	100	150	200
1	18	25	35	55	105	210	280	-	-	-
2	9	13	18	27	55	105	140	175	265	-
3	6	9	12	18	35	70	95	120	175	235
4	5	7	9	14	27	55	70	90	135	175
6	3	5	6	9	18	35	50	60	90	120
8	3	4	5	7	14	27	35	45	70	90
9	2	3	4	6	12	24	35	40	60	80
12	2	2	3	5	9	18	24	30	45	60

Approximate time in minutes to heat water

Powerstream delivers instant hot water at point of use. This compact and unique design eliminates the need for centrally stored hot water cylinders saving on electricity usage and important space.

- 12kW unit is the highest rated single phase heater on the UK market



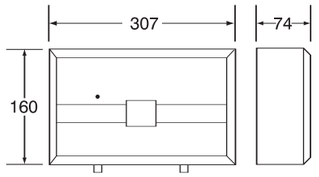
Key Features:

- Water supplied to one or two outlets (either one shower and one hand basin or two hand basins)
- Water outlet via existing tap or mixer (especially suitable via spray tap)
- Direct mains supply
- Small compact shape
- Remote fitting option
- No standing heat losses
- Fast response
- Two heat settings
- Neon 'power on' indicator
- 3 year guarantee (UK)
- BEAB, WRAS and CE approved

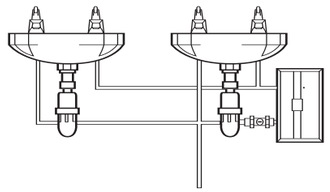
Flow Rate/Performance – Winter/Summer:

Model	4lts/min	5lts/min	6lts/min
9.5kW	39 / 54°C	32 / 47°C	28 / 42°C
10.8kW	44 / 58°C	36 / 51°C	31 / 46°C
12kW	48 / 63°C	39 / 54°C	34 / 49°C

Approximate water temperature which can be expected from Powerstream for different flow rates. The temperature of the mains supply can vary from 5°C in winter up to about 20°C in summer, with a mean average of about 12°C.



Dimensions Powerstream



Installation Powerstream

- RP10.8 and RP12 Heater Unit feeding two handwash basins
- Multi-directional mounting
- Fixing pack supplied

Accessories:

In shower applications, we only recommend the use of a Redring approved shower mixer kit: Chrome and white mixer with white accessory kit and variable spray shower head.

For hand-wash applications, we recommend the use of Redring approved 1/4 turn lever control ceramic disc operated spray tap which will enhance the delivery performance on dual-outlet installations.

Typical Specification: Powerstream

Supply and install a Redring **Powerstream** unvented water heater for connection to mains water supply and mains electricity supply, providing instant mains pressure hot water to one or two outlets, as supplied by:

Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420.

Model:	Cat No:
9.5kW	45-793201
10.8kW	45-793204
12kW	45-793202

- The water heater shall be designed with a 3/8"NPT water connection which have 15mm straight connections on the inlet and outlet
- The water heater shall be capable of mounting in such a way to allow pipe entry from the bottom or side
- The water heater shall be designed to operate on mains water pressure between 15-150psi for the 9.5kW variant and 20-150psi for the 10.8 and 12kW variants
- The water heater shall be designed to have a minimum size of 160mm height, 307mm width and 74mm depth
- The water heater shall be designed to incorporate two heating elements capable of being set for winter or summer settings
- The water heater shall incorporate a 'power on' indicator visible through an impact resistant front cover
- The water heater shall be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive
- The water heater shall have a 3 year manufacturer's guarantee for UK use

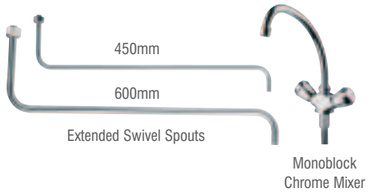
Specification

Product Reference	Short Code	Catalogue Number	Operating Pressure	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Powerstream 9.5	RP1	45-793201	15 - 150 psi	8.7 - 9.5	10mm²	40 amps
Powerstream 10.8	RP10.8	45-793204	20 - 150 psi	9.9 - 10.8	16mm²	45 amps
Powerstream 12	RP12	45-793202	25 - 150 psi	11 - 12	16mm²	50 amps
Shower mixer kit		85-793605	-	-	-	-
1/4 turn lever control spray tap		85-793616	-	-	-	-

• Flow stabiliser/service valve • Thermal cut-out protection • Unique Redring water flow operated power switch • Impact resistant moulded cover
• Corrosion resistant steel backplate • Half power selection available on installation.

The **Contour 7000** has a 7 litre capacity of hot water storage for oversink washing needs. Using the monoblock chrome accessory it can be fitted undersink. Alternatively the **Contour 7000 Remote** is a complete installation pack for undersink fitting, featuring an air operated sink mounted switch that when pressed delivers hot water through a remote swivel spout at your pre-set temperature. These units also benefit from minimal standing heat loss because they are installed at point of use.

WRAS Approved Product · 3 Year Guarantee · BEAB Approved · CE



Accessories:

- Extended swivel spout (450mm)
- Extended swivel spout (600mm)
- Monoblock chrome mixer (for undersink installation)

Key Features:

- 7 litre capacity, point of use
- Adjustable thermostat 15°C - 75°C
- Integral on/off and flow control
- Frost protection setting
- Choice of heat settings
- Ideal handwash and dishwash temperature settings indicated on the unit
- Tamperproof thermostat cover
- Complete with 300mm swivel spout
- Proven long life copper element
- Negligible standing heat loss
- 3 year guarantee (UK)
- BEAB, WRAS and CE approved

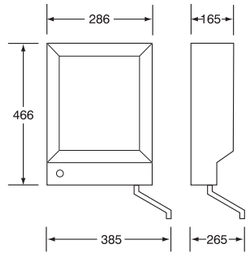
Features exclusive to the Contour 7000 Remote.

- On/off control via touch air switch
- Hot water delivered through a remote swivel spout
- Remote air switch swivel spout and flexible hose supplied
- Neat out of sight installation

Specification

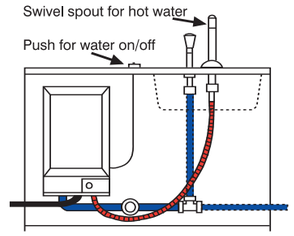
Product Reference	Short Code	Catalogue Number	kW Loading @ 240V	Recommended Cable Size	Recommended Fuse Rating
Contour 7000 3kW	C73	44-784001	3kW	2.5mm²	13 amps
Contour 7000 1kW	C71	44-784002	1kW	1.0mm²	5 amps
Contour 7000 Remote	C7U3	44-784020	3kW		13 amps
Extended swivel spout - 450mm		84-780404	-	-	-
Extended swivel spout - 600mm		84-780405	-	-	-
Monoblock chrome mixer		84-780408	-	-	-
Extended flexible hose (2 metres)		83-762502	-	-	-

• Corrosion resistant polypropylene water container with polystyrene insulation • High gloss, high strength impact resistant ABS cover • Capillary type, externally adjustable thermostat • Restrictors supplied to optimise flow rate • Integral safety over temperature thermal fuse



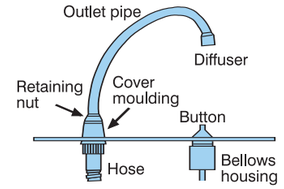
Dimensions Contour 7000

Installation Contour 7000 Remote



Contour 7000 Remote

▸ Undersink Mounting



Air Switch and Swivel Spout

▸ Air switch and swivel spout are included in installation pack.

- Standard 15mm (1/2") inlet connection
- Rear or bottom cable entry
- Side or bottom water entry
- Wall bracket and full fixing pack supplied

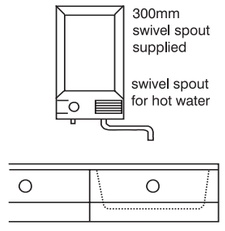
Typical Specification: Contour 7000

Supply and install a Redring **Contour 7000** small vented water storage heater for over sink operation, as supplied by

Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420.

Model:	Cat No:
3kW	44-784001
1kW	44-784002

- The water heater shall be designed to provide 7 litres of stored hot water capable of temperature adjustment between 15-75°C
- The temperature control shall be located behind a tamper-proof cover on the control panel. This control shall incorporate a frost protection setting
- The water heater shall be designed to deliver the hot water through a 300mm swivel spout as supplied and controlled by means of an integral on/off flow control located visibly on the control panel
- The water heater shall be supplied with a wall bracket and full fixing pack
- The heater shall be capable of 15mm water connection via side or bottom entry and electrical connection via rear or bottom entry
- The water heater shall be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive
- The water heater shall have a 3 year manufacturer's guarantee for UK use



Installation of Contour 7000

▸ Oversink Mounting

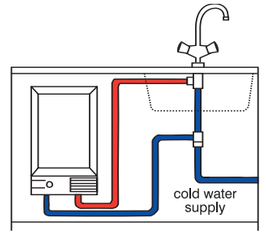
Contour 7000 Remote

Supply and install a Redring **Contour 7000** Remote small vented water storage heater for under sink operation, as supplied by

Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420.

Model:	Cat No:
3kW	44-784020

- The water heater shall be designed to provide 7 litres of stored hot water capable of temperature adjustment between 15-75°C
- The temperature control shall be located behind a tamper-proof cover on the control panel. This control shall incorporate a frost protection setting
- The water heater shall be designed to deliver hot water through a flexible hose coupling connected to a remote swivel spout and operated via a remote air switch which are both to be supplied with the unit
- The water heater shall be supplied with a wall bracket and full fixing pack
- The heater shall be capable of 15mm water connection via side or bottom entry and electrical connection via rear or bottom entry
- The water heater shall be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive
- The water heater shall have a 3 year manufacturer's guarantee for UK use



Installation of Contour 7000 Remote

▸ Undersink Mounting requires the monoblock mixer accessory for undersink mounting

The **WS7** offers an economical solution to provide stored hot water at point of use and can be mounted undersink using the special monoblock chrome-mixer accessory. These units also benefit from minimal standing heat loss because they are installed at point of use.

These **Flatback Cisterns** are designed for wall mounted installation. A compact unit which provides a multi-outlet water heating solution.

Typical Specification: WS7

Supply and install a **Redring WS7** small vented water storage heater for over sink operation, as supplied by

Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420.

Model:	Cat No:
3kW	44-780001
1kW	44-780002

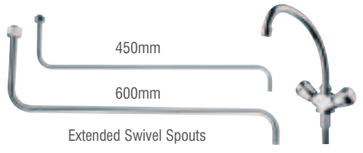
- The water heater shall be designed to provide 7 litres of stored hot water capable of temperature adjustment between 15-75°C
- The temperature control shall incorporate a frost protection setting
- The water heater shall be designed to deliver hot water through a 300mm swivel spout as supplied. On/off flow control is via a tap supplied with the heater
- The water heater shall be supplied with a wall bracket and full fixing pack
- The water heater shall be capable of 15mm water connection via side or bottom entry and electrical connection via rear or bottom entry
- The water heater shall be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive
- The water heater shall have a 3 year manufacturer's guarantee for UK use

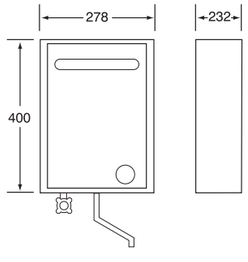
Key Features:

- 7 litre capacity, point of use
- Adjustable thermostat 15°C - 75°C with frost protection setting
- Choice of 1kW and 3kW models
- 300mm swivel spout included
- Extended outlets available
- Wall bracket and full fixing pack supplied
- Integral safety over temperature thermal fuse
- 3 year guarantee (UK)
- BEAB, WRAS and CE approved

Accessories:

- Extended length swivel spout (450mm)
- Extended length swivel spout (600mm)
- Monoblock chrome mixer (for undersink installation)





Dimensions WS7

Specification

Product Reference	Short Code	Catalogue Number	Inlet Connection	kW Loading @ 240V	Recommended Cable Size	Recommended FuseRating
WS7	WS73	44-780001	15mm (1/2")	3kW	2.5mm²	13 amps
WS7	WS71	44-780002	15mm (1/2")	1kW	1.0mm²	5 amps
Extended swivel (450mm)		84-780404	-	-	-	spout
Extended swivel (600mm)		84-780405	-	-	-	spout
Monoblock chrome mixer		84-780408	-	-	-	

• Corrosion resistant polypropylene water container with polystyrene insulation • High quality impact resistant ABS cover
• Capillary type, externally adjustable thermostat

Typical Specification: Flatback Cistern Type

Supply and install a Redring **Flatback Cistern Type** large vented water storage heater for wall mounting as supplied by

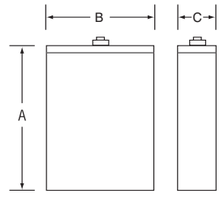
Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420.

Model:	Cat No:
25 Litre Capacity	26-785001
50 Litre Capacity	26-785101
75 Litre Capacity	26-785201
100 Litre Capacity	26-785301

- The heater shall be designed to allow hot water supply to multiple outlets
- The heater shall be constructed to provide temperature control between 50-80°C
- Precision temperature control shall be provided by 2 adjustable thermostats
- Water heating shall be provided by means of a 3kW incoloy sheathed heating element and contain an overheat protection device
- The heater water vessel shall be manufactured from copper sheet joined with brazed seams and be housed in a corrosion proofed, enamel finished, steel outer case
- The water heater shall be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive
- The water heater shall have a 1 year manufacturer's guarantee for UK use

Key Features:

- Choice of 25, 50, 75 or 100 litre capacities
- Two adjustable thermostats for precise control
- Overheat protection
- Ideal for replacement (overflow and cold feed can be connected on the left or right hand side)
- 50 to 80°C thermostatic control range
- Drain connection supplied and fitted
- 1 year guarantee (UK)
- BEAB, WRAS and CE approved



Dimensions Flatback Cistern Type

CT25 ▸ A Height 705mm ▸ B Width 470mm ▸ C Depth 210mm
CT50 ▸ A Height 750mm ▸ B Width 600mm ▸ C Depth 320mm
CT75 ▸ A Height 925mm ▸ B Width 600mm ▸ C Depth 320mm
CT100 ▸ A Height 1080mm ▸ B Width 600mm ▸ C Depth 320mm

Specification

Product Reference	Short Code	Catalogue Number	Capacity Litres (Hot)	Capacity Litres (Cold)	Weight Empty (Kg)	Weight Full (Kg)
Cistern Type 25	CT25	26-785001	25	8	20	53
Cistern Type 50	CT50	26-785101	50	24	32	106
Cistern Type 75	CT75	26-785201	75	24	37	136
Cistern Type 100	CT100	26-785301	100	24	40	164

• Copper sheet water vessel with brazed seams • Corrosion proofed steel, with enamel finish outer casing
• 3kW Incoloy sheathed element • 1/2" BSP cold water and 22mm compression fitting hot water connections.

The **EW/MW range** has been designed to provide stored hot water from a mains pressurised water supply.

The **EW range** has been designed without the need for the temperature and pressure relief device making installation even simpler.

The **MW range** comes complete with a factory fitted temperature and pressure relief device.

Accessories:

Thermostatic Blending Valves – increasingly used to ensure a safe maximum dispensing temperature for hot water providing protection for end users. Quickly and easily fitted to the outlet from the hot water system and the cold water feed.

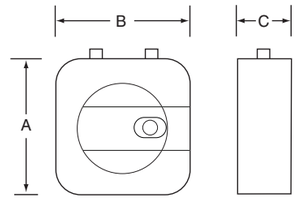
Thermostatic Blending Valve

Key Features:

- Will deliver hot water up to four outlets
- Balanced supply of hot and cold water
- Heat loss minimisation and energy savings from short pipe runs and superior insulation
- Water outlet via existing tap or mixer
- Adjustable thermostat to 70°C
- Over temperature safety cut-out
- Temperature pressure relief valve factory fitted to all MW models
- Neon light indicates when heater is working
- Compact shape for undersink mounting
- Remote siting possible
- 1 year guarantee (UK)
- BEAB, WRAS and CE approved

Installation:

- Inlet/outlet connections 15mm (1/2" BSP)
- Fixing pack with wall mounting bracket supplied
- EW/MW units need to discharge to a drain



Dimensions EW10/MW10/MW10H

▸ A Height 360mm ▸ B Width 360mm ▸ C Depth 254mm

Dimensions EW15/MW15/MW15H

▸ A Height 360mm ▸ B Width 360mm ▸ C Depth 300mm

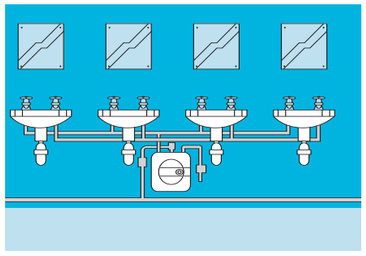
Typical Specification: EW Series

Supply and install a Redring **EW Series** small unvented storage water heater for connection to mains pressurised water supply for under sink mounting, as supplied by

Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420.

Model:	**Cat No:**
10 litre	47-784501
15 litre	47-784502

- The heater shall be designed to provide mains pressurised hot water for up to 4 outlets allowing both hot and cold water supplies to be balanced
- The heater shall minimise the standing heat losses by means of superior thermal insulation and by means of being sited close to the outlets
- The heater shall be constructed so as not to require a temperature and pressure relief device reducing installation costs
- The heater shall provide water temperature adjustments to 70°C and incorporate an over-temperature cut out
- The heater shall incorporate an integral neon indicator illuminating when the heater is energised
- The heater shall be provided with a 15mm inlet and outlet connection and a mounting pack
- The water heater shall be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive
- The water heater shall have a 1 year manufacturer's guarantee for UK use



▸ MW15 supplying 4 basins via spray taps

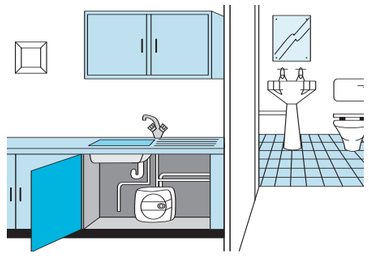
MW Series

Supply and install a Redring **MW Series** small unvented storage water heater for connection to mains pressurised water supply for under sink and over sink mounting, as supplied by

Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420.

Model:	**Cat No:**
10 litre	47-782001
15 litre	47-782101
10 litre	47-781001
15 litre	47-781101

- The heater shall be designed to provide mains pressurised hot water for up to 4 outlets allowing both hot and cold water supplies to be balanced
- The heater shall minimise the standing heat losses by means of superior thermal insulation and by means of being sited close to the outlets
- The heater shall be supplied with a temperature and pressure relief device factory fitted
- The heater shall provide water temperature adjustments to 70°C and incorporate an over-temperature cut out
- The heater shall incorporate an integral neon indicator illuminating when the heater is energised
- The heater shall be provided with a 15mm inlet and outlet connection and a mounting pack
- The water heater shall be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive
- The water heater shall have a 1 year manufacturer's guarantee for UK use



▸ MW10 supplying a sink and a basin

Specification

Product Reference	Short Code	Catalogue Number	Capacity In Litres	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
EW10 Undersink	EW10	47-784501	10	2.7 - 3	1.5mm²	13 amps
EW15 Undersink	EW15	47-784502	15	2.7 - 3	1.5mm²	13 amps
Optional cold water controls		87-783101	-	-	-	-
Tundish		97-783236	-	-	-	-
Temperature & pressure relief valve		97-783258	-	-	-	-
Blending valve fail safe		87-783103	-	-	-	-

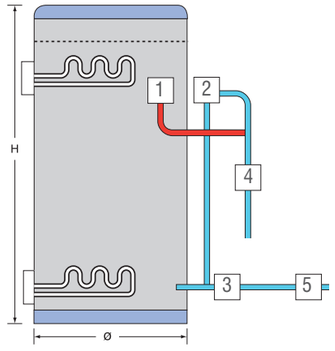
• Operating water pressure 1 - 12bar (above 6bar use cold water controls pack) • Vitreous enamelled steel water container, white thermoplastic cover and foamed polyurethane insulation
• Magnesium sacrificial anode replaceable by front access • Anode available as spare part

Specification

Product Reference	Short Code	Catalogue Number	Capacity In Litres	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
MW10 Undersink	MW10	47-782001	10	2.7 - 3	1.5mm²	13 amps
MW15 Undersink	MW15	47-782101	15	2.7 - 3	1.5mm²	13 amps
MW10H Oversink	MW10H	47-781001	10	2.7 - 3	1.5mm²	13 amps
MW15H Oversink	MW15H	47-781101	15	2.7 - 3	1.5mm²	13 amps

• Operating water pressure 1 - 12bar (above 6bar use cold water controls pack) • Vitreous enamelled steel water container, white thermoplastic cover and foamed polyurethane insulation
• Magnesium sacrificial anode replaceable by front access • Anode available as spare part

The **LWC Range** is a range of water heating cylinders providing mains pressure hot water. They do not require a header feeder tank which allows installation almost anywhere in the property. LWC boilers reduce the risk of water contamination, installation is relatively simple therefore reducing cost.



Arrangement diagram for control devices

1 Temperature & Pressure Relief Valve
2 Expansion Relief Valve
3 Non Return Valve
4 Tundish
5 Combined Line Strainer/Pressure Limiter

Key Features:

- 'A' grade copper cylinder
- Indirect versions have high efficiency copper coil heat exchanger and 3kW immersion heater for summer water heating
- The 100, 144 and 210 litre capacity models feature 2 x 3kW immersion heaters to gain maximum benefit from 'Off-Peak' tariffs
- Immersion heaters are incoloy for longer life even in hard water areas
- Finished in leatherette-coated grey steel for a clean finish
- Insulated with CFC free PU hard foam for energy efficiency
- Fitted with an internal expansion bubble, so no need for external expansion vessel
- Safety features include 3 levels of pressure control and 3 levels of temperature control
- Immersion heaters have control thermostat range adjusting from 20-65°C – High limit stat operates at 80°C
- 2 year guarantee on cylinder and 1 year guarantee on components (UK)
- BEAB, WRAS and CE approved

LWC Unit Selection Guide:

House Type	InDirect	Direct
Small house with standard bath plus shower	144	144
2/3 bedroom, en suite & bathroom	144	144
4 bedroom, 2 bathroom	144	210
Large properties with 2 bathrooms & en suite	210	210

Product Specification: Direct System

- Electric boiler for the supply of mains pressure hot water
- Power ratings of 2.7-3kW, or 2 x 2.7-3kW
- Available in capacities of 50, 75, 100, 144 and 210 litres

Product Specification: InDirect System

- Electric boiler with central heating boiler heat exchange facility for the supply of hot water
- Power ratings of 2.7-3kW @ 230-240V
- Available in capacities of 144 and 210 litres

Installation:

- Supplied with pressure reducing valve incorporating an in-line strainer, loose check valve, expansion relief valve, temperature & pressure relief valve and tundish making the LWC complete for installation
- Inlet and outlet connections are via 22mm compression fittings

Installation accessories provided:

- Tundish
- Expansion valve set at 3bar
- Pressure reducing valve set at 1.5bar
- Line strainer
- 2 port diverter to secondary heating circuit (indirect only)
- Temperature and pressure relief valve

Flow Rates:

Balanced hot and cold water pressures give many advantages. Flow rate, not pressure, is the true measure of performance. The LWC units are comparable to any other unvented cylinder currently listed by the BBA providing a 'power shower' without a pump and filling a bath in just a few minutes.

Typical Specification: LWC Direct

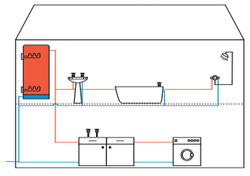
Supply and install a Redring **LWC** large unvented storage water heater for connection to pressurised mains water supply providing whole house hot water, as supplied by

Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420.

Model: Cat No:
3kW - 50 litre capacity: 47-781301
3kW - 75 litre capacity: 47-781401
6kW - 100 litre capacity: 47-781501
6kW - 144 litre capacity: 47-781601
6kW - 210 litre capacity: 47-781801

- The heater shall be constructed of an 'A' grade copper cylinder incorporating incoloy immersion heaters for longer life. It shall incorporate an anode as standard requiring no further servicing. Be insulated with CFC free PU hard foam for reduced standard heat losses and be encased in a leatherette grey steel cladding for easy cleaning
- The heater shall be designed to incorporate an integral expansion bubble reducing installation costs
- The heater shall have 3 levels of pressure and temperature control provided as standard
- The heater shall be capable of water temperature control between 20-65°C and shall incorporate an over temperature limiter set at 80°C
- The heater shall be provided with all accessories required to install the unit as standard, those being; a tundish, expansion valve set at 3bar, pressure reducing valve set at 1.5bar, line strainer and temperature and pressure relief valve
- The water heater shall be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive
- The water heater shall have 2 years guarantee on the cylinder and 1 year guarantee on components

Direct (Di)



Cold Water Mains

Typical Specification: LWC InDirect

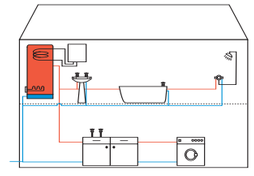
Supply and install a Redring **LWC** large unvented storage water heater for connection to pressurised mains water supply providing whole house hot water, as supplied by

Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420

Model: Cat No:
3kW - 144 litre capacity: 47-784701
3kW - 210 litre capacity: 47-784901

- The heater shall be constructed of an 'A' grade copper cylinder incorporating incoloy immersion heaters for longer life. It shall incorporate an anode as standard requiring no further servicing. Be insulated with CFC free PU hard foam for reduced standard heat losses and be encased in a leatherette grey steel cladding for easy cleaning
- The heater shall be designed to incorporate an integral expansion bubble reducing installation costs
- The heater shall have 3 levels of pressure and temperature control provided as standard
- The heater shall be capable of water temperature control between 20-65°C and shall incorporate an over temperature limiter set at 80°C
- The heater shall be provided with all accessories required to install the unit as standard, those being; a tundish, expansion valve set at 3bar, pressure reducing valve set at 1.5bar, line strainer, temperature and pressure relief valve and a 2 port diverter
- The water heater shall be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive.
- The water heater shall have 2 years guarantee on the cylinder and 1 year guarantee on components

inDirect (iD)



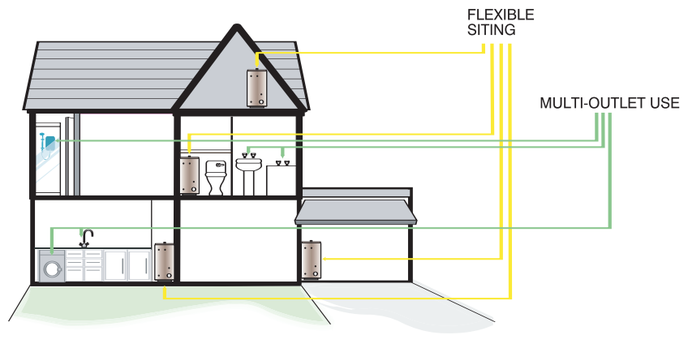
Cold Water Mains

Specification

Product Reference	Catalogue Number	Capacity In Litres	kW Loading @ 240V	Recommended Cable Size	Recommended Fuse Rating	Height mm	Diameter mm
LWC50Di	47-781301	50	1 x 3	1.5mm²	13 amps	700	460
LWC75Di	47-781401	75	1 x 3	1.5mm²	13 amps	1050	460
LWC100Di	47-781501	100	2 x 3	1.5mm²	13 amps	1200	560
LWC144Di	47-784601	144	2 x 3	1.5mm²	2 x 13 amps	1350	560
LWC144iD	47-784701	144	1 x 3	1.5mm²	1 x 13 amps	1350	560
LWC210Di	47-784801	210	2 x 3	1.5mm²	2 x 13 amps	1850	560
LWC210iD	47-784901	210	1 x 3	1.5mm²	1 x 13 amps	1850	560

• Di - Direct • iD - InDirect • Operating pressure 1.5bar • Expansion relief valve set at 3 bar • Temperature and relief valve set at 3.5bar at 95ºC
INSTALLATION MUST BE CARRIED OUT BY A COMPETENT INSTALLER

The **LWSS range** of stainless steel water heating cylinders provides effective, fast and safe mains-fed hot water around any property.
A high quality vessel employing the best in laser welding technology, the **LWSS range** features high flow rates, energy efficient insulation and an expansion vessel.



Choosing the right size:

Product Code	Capacity (Litres)	Cat No.	Nominal Sizes (mm)	Nominal Weight (kg) Full	Recommended for Heat up time/re-heat time
LWSS150id	150	47 - 786111	1120 x 560	230	Twin Bath 30 mins / 21 mins
LWSS200id	200	47 - 786211	1470 x 560	300	2 Bath and 2 Showers 33 mins / 24 mins
LWSS250id	250	47 - 786311	1770 x 560	360	3 Bath and 2 Showers 36 mins / 26 mins

Key features:

- 25-year cylinder guarantee + 2-year parts.
- 150, 200 and 250 litre capacity units have a high efficiency coil and a 3kW immersion heater.
- High flow rate – ideal to supply power showers without the need for a separate pump.
- All ancillary components are supplied, allowing for easy, quick and hassle-free installation.
- Supplied with a pressure gauge for instant diagnosis, leading to simple servicing when required.
- Expansion vessel helps eliminate discharge between services.

Installation:

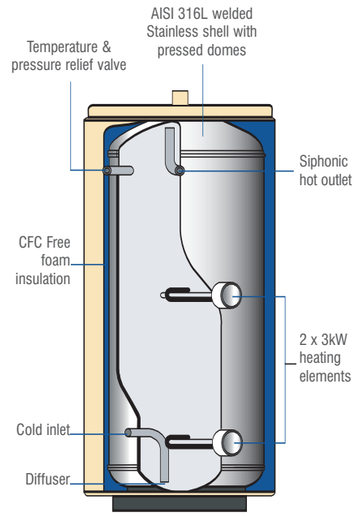
- For installation of the LWSS range, mains water supply is essential. The unit requires a minimum 2bar water pressure for use with a 22mm copper or 25mm MDPE service for single bath/shower applications.
- For greater demand, 3bar pressure is required.
- LWSS units will fit through a standard 600mm wide door frame and require a floor area of 600mm x 650mm to accommodate pipework.
- Electrical connections are located on the front of the unit, to the right of centre, significantly reducing the risk of electrical faults if a leak should occur.

Service:

- An annual service of each unit is essential. The diagnostic gauge located on the cold water inlet pipe allows the inlet pressure to be easily read to make servicing simple.
  Inlet pressure should be 3bar at cold fill.
- The pressure and temperature relief valve and the expansion vessel should be checked annually.

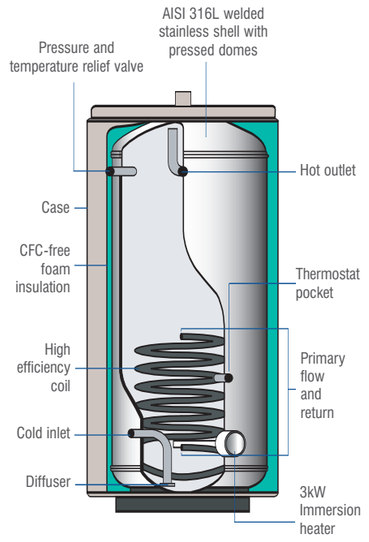
Technical specifications: LWSS Direct

- The **LWSS range** of water heaters incorporates a high grade austenitic 316L material which is widely used in the chemical, medical, nuclear, pharmaceutical and food industries – it is ideally suited to hot water storage. No anode is contained within the units and each one is lightweight, insulated with CFC-free PU hard foam for reduced heat losses and cased for easy cleaning
- Each unit features 2 x 3kw immersion heaters to gain maximum benefit from 'off-peak' tariffs. The provision of all ancillary components makes installation simple and cost-effective
- The LWSS range boasts a high flow rate making it ideal for the supply of hot water for power shower performance without a pump
- Each unit includes a self-diagnostic pressure gauge allowing easy servicing of the unit and instant diagnosis of any problems
- A 25-year cylinder guarantee is provided
- Each unit is approved by WRAS for connection to mains water systems


Temperature & pressure relief valve
AISI 316L welded Stainless shell with pressed domes
Siphonic hot outlet
CFC Free foam insulation
2 x 3kW heating elements
Cold inlet
Diffuser

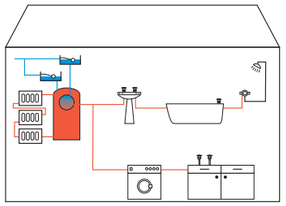
Technical specifications: LWSS InDirect

- The **LWSS range** of water heaters incorporates a high grade austenitic 316L stainless steel material – which is widely used in the chemical, medical, nuclear, pharmaceutical and food industries – is ideally suited to hot water storage. Servicing is kept to a minimum as no anode is contained within the cylinder. Each unit is also lightweight, insulated with CFC-free PU hard foam for reduced heat losses and cased for easy cleaning.
- Each unit features a 3kW immersion heater.
  The provision of all ancillary components makes installation simple and cost-effective.
- The LWSS range boasts a high flow rate making it ideal for the supply of hot water for power shower performance without a pump.

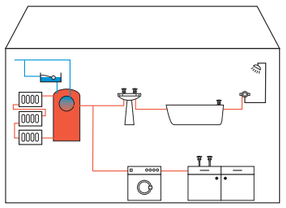


Dualheat is an electric combi-boiler that provides domestic hot water – and powers 'wet' radiator systems.
It combines the convenience of low-cost electricity, where available, with the comfort of radiator heating. **Dualheat** unvented units can be sited almost anywhere as it has no external flue, no fumes, no noise and no need for a space-wasting hot water cylinder. With few moving parts, maintenance is minimal. Unvented models supply hot water at mains pressure.

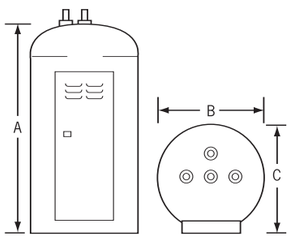
Dualheat Combination Boiler



Installation Vented



Installation Unvented



Dimensions Dualheat

DH9UC ▸ A Height 1040mm ▸ B Width 590mm ▸ C Depth 685mm
DH12UC ▸ A Height 1430mm ▸ B Width 590mm ▸ C Depth 685mm
CT75 ▸ A Height 1040mm ▸ B Width 590mm ▸ C Depth 685mm
CT100 ▸ A Height 1430mm ▸ B Width 590mm ▸ C Depth 685mm

Key Features:

- Central heating and hot water in a single package.
- Available as a vented or unvented unit (domestic hot water)
- Can be sited within an airing cupboard or roof space
- Extra long life copper tank and spherical copper heat exchanger
- Connects directly to the mains.
- Quiet operation – no firing up or continuous burning involved
- No fume emissions and needs no flue
- Low heat loss and high efficiency
- Safe, clean, hygienic and reliable
- Easy draining
- Direct acting immersion heater allowing fast temperature recovery to the available water after hot water usage
- New design for rapid radiator heat up. Radiators up to temperature within 2 minutes of the room thermostat calling for heat
- Conventional room thermostat and thermostatic radiator valves are only controls required.
- Low maintenance
- 2 year guarantee (UK)
- BEAB, WRAS and CE approved

Product Specification:

- Electric boiler providing hot water and wet central heating supplies
- Power rating 230V,50Hz, 9kW, 39A or 230V, 50Hz, 12kW, 52A
- System types: Vented (hot water system); Unvented (hot water system). (Note; Central heating system is vented on all models.)
- Unvented only capacities: 9kW model provides 47 litres of hot water and 129 litres for central heating. The 12kW model provides 47 litres of hot water and 203 litres for central heating
- 2 year guarantee (UK)

Plumbing Specification:

- All tank connections 22mm
- Water pressure 1bar – 12bar (mains water pressure)
- Hot water operating pressure 1.5bar
- Expansion relief setting 3bar

Typical Specification: Dualheat - Vented
Supply and install a Redring **Dualheat** combination electric boiler for connection to a cold water header tank supplying both domestic hot water and central heating system utilising low cost electrical supplies as supplied by

Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420.

Model:	**Cat No:**
Dualheat 9kW	29-394561
Dualheat 12kW	29-394563

- The boiler shall be constructed from extra long life copper forming both the spherical hot water vessel and central heating supply vessel. It shall be insulated with CFC free PU hard foam to reduce standing heat losses
- The boiler shall be designed such that the domestic hot water vessel shall have a capacity of 47 litres and central heating supply vessel a capacity of 129 litres (9kW), 703 litres (12kW) with all plumbing connections at 22mm
- The boiler shall be designed such that it is capable of providing both hot water and central heating when connected to a low cost peak avoidance tariff and that central heating heat up response is within 2 minutes
- The boiler shall be supplied with installation accessories required to install the unit as standard, those being a tundish, temperature and pressure relief device
- The boiler should be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive
- The water heater shall have a 2 year manufacturer's guarantee for UK use

Typical Specification: Dualheat - Unvented
Supply and install a Redring **Dualheat** combination electric boiler for connection to a cold water header tank supplying the central heating system and pressurised mains cold water supplying the domestic hot water system utilising low cost electricity supply as supplied by

Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420.

Model:	**Cat No:**
Dualheat 9kW	29-394562
Dualheat 12kW	29-394564

- The boiler shall be constructed from extra long life copper forming both the spherical hot water vessel and central heating supply vessel. It shall be insulated with CFC free PU hard foam to reduce standing heat losses
- The boiler shall be designed such that the domestic hot water vessel shall have a capacity of 47 litres and central heating supply vessel a capacity of 129 litres (9kW), 703 litres (12kW) with all plumbing connections at 22mm
- The boiler shall be designed such that it is capable of providing both hot water and central heating when connected to a low cost peak avoidance tariff and that central heating heat up response is within 2 minutes
- The boiler shall be supplied with installation accessories required to install the unit as standard, those being a tundish, temperature and pressure relief device, pressure reducing valve and expansion vessel
- The boiler should be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive
- The water heater shall have a 2 year manufacturer's guarantee for UK use

Specification:

Model	**Dualheat 9C**	**Dualheat 9UC**	**Dualheat 12C**	**Dualheat 12UC**
Short Code	DH9C	DH9UC	DH12C	DH12UC
Catalogue No.	29-394561	29-394562	29-394563	29-394564
Physical Specification	**Vented**	**Unvented**	**Vented**	**Unvented**
Weight (empty)	48kg	48kg	55kg	55kg
Central heating vent, feed and radiator flow	22mm pipe	22mm pipe	22mm pipe	22mm pipe
Central heating drain	22mm pipe	22mm pipe	22mm pipe	22mm pipe
Domestic hot water inlet	22mm pipe	22mm pipe	22mm pipe	22mm pipe
Domestic hot water outlet	22mm pipe	22mm pipe	22mm pipe	22mm pipe
Expansion relief valve discharge	-	15mm compression	-	15mm compression
Temperature and pressure relief discharge	22mm compression	22mm compression	22mm compression	22mm compression
Equal pressure take off	-	22mm compression	-	22mm compression
Pressure reducing valve inlet	-	22mm compression	-	22mm compression
Tundish	-	3/4" BSP/1" BSP	-	3/4" BSP/1" BSP
DHW mixing valve	22mm compression	22mm compression	22mm compression	22mm compression
Primary store capacity (CH)	129 litres	129 litres	203 litres	203 litres
DHW heat exchanger capacity	47 litres	47 litres	47 litres	47 litres
Electrical Specification				
Electrical supply	230V 1Ph 50Hz	230V 1Ph 50Hz	230V 1Ph 50Hz	230V 1Ph 50Hz
Full load current	39.13 A	39.13 A	52.2 A	52.2 A
Nominal rating	9kW	9kW	12kW	12kW
Min cable size	10mm^2	10mm^2	16mm^2	16mm^2
Performance (Electrical supply available)				
Heat output equivalent Btu/hr	30750	30750	41000	41000
Output to heating (peak with full store)	>15kW	>15kW	>18kW	>18kW
Continuous output under steady state conditions	3 - 9kW	3 - 9kW	3 - 12kW	3 - 12kW
Output to DHW peak (peak to zero CH load)	9kW	9kW	12kW	12kW
Continuous output under steady state conditions	3kW	3kW	3kW	3kW
Hot water performance	to BS6700	to BS6700	to BS6700	to BS6700
Heat loss from cylinder	>180W	>180W	>250W	>250W
Thermal store	Equivalent to 6kW	Equivalent to 6kW	Equivalent to 6kW	Equivalent to 6kW

Redring have introduced a new range of **Dual cut-out immersion heaters** to comply with the European safety standard, EN 60335-2-73 for fixed immersion heaters.

All Redring dual cut-out immersion heaters are supplied complete with rod thermostat, and are manufactured with a separate, 'secondary manual reset safety cut-out' fitted directly to the immersion heater head.

This ensures that all Redring immersion heaters are compliant, and do not rely on the fitting of a combined rod thermostat with cut-out to meet the safety requirement. Dual cut-out immersion heaters are available in standard copper or Aqualoy variants for use in more aggressive water areas.

Dual cut-out immersion heaters

Economy7 Time Controller

The Redring Electronic 7 immersion heater controller allows up to three secure off-peak heating periods every 24 hours to make the maximum use of cheap rate structures – including split tariffs.

Dimensions Dualheat

- Height 115mm
- Width 170mm
- Depth 60mm

Features & Benefits:

- One minute accuracy means no accidental running over into full rate tariff periods
- Suitable for use with single, dual or two element immersion heaters
- Precise and flexible programming
- Pre-programmable automatic boost and one hour manual boost
- Illuminated display for easy reading even in a dark cupboard
- One touch winter/summer change button alters setting and display
- Two year battery reserve protection against power interruption
- Easy installation
- BEAB, WRAS and CE approved

Specification for Economy 7 Time Controller:

Product Reference	Short Code	Catalogue Number	Supply	Power Consumption	Live Parts	Dirt Protection	Moisture Protection	Shock Protection	Max. Op Temp °C	Min. Op Temp °C
Electronic 7	EC7	82-700206	240V AC, 50Hz	10VA max	Enclosed	Normal situations	Ordinary	Class 1	+35	0

- 230V - 240V, 13A. Suitable for immersion heaters up to 3kW. • Microgap on control. Full disconnection to immersion heater(s) on double pole isolator switch.
- 2 years reserve battery, total power disconnection. • Display: 6.35mm character height, backlit liquid crystal display, am/pm indication, Summer/Winter indication.
- Programme Settings: Off peak - up to 3 on/off periods. Boost - pre-programmable automatic boost and 1 hour manual boost.
- Mounting box materials: Thermoplastic, flame retardant.

Specification for Dual cut-out Immersion Heaters

Catalogue No.	Short Code	Length Inches
2¹/₄" BSP Copper with fitted STAT & CUT-OUT - (1 year guarantee)		
33-324501	P11DC	11
33-324502	P14DC	14
33-324503	P27DC	27
33-324504	P30DC	30
33-324505	P36DC	36
2¹/₄" BSP Aqualoy with fitted STAT & CUT-OUT - (3 year guarantee)		
33-324601	A11DC	11
33-324602	A27DC	27
2¹/₄" BSP Twimerser Copper with fitted STAT & CUT-OUT - (1 year guarantee)		
30-302801	TS27DC	10/27
1³/₄" BSP Unvented Aqualoy with fitted STAT & CUT-OUT - (3 year guarantee)		
33-324701	GU11DC	11

Specification for Industrial Immersion Heaters

2¹/₄" BSP complete with Thermostat & Incoloy 825 Elements *Not recommended for aggressive water

Catalogue No.	Short Code	Loading kW	Phases	Immersed Length	Thermostat
60-391301	RY211	2	1 only	11	Yes
60-391032	RY311	3	1 or 3	11	Yes
60-391303	RY330	3	1 or 3	30	Yes
60-391304	RY411	4	1 or 3	11	Yes
60-391305	RY416	4	1 or 3	16	Yes
60-391306	RY616	6	1 or 3	16	Yes
60-391307	RY630	6	1 or 3	30	Yes
60-391309	RY724	7.5	1 or 3	24	Yes
60-391310	RY914*	9	1 or 3	14	Yes
60-391311	RY927	9	1 or 3	27	Yes
60-390312	RY936	9	1 or 3	36	Yes
60-391313	RY1224	12	1 or 3	24	Yes
60-391314	RY1236	12	1 or 3	36	Yes

Dual cut-out Twimerser:

The economy of two individually operating copper sheathed heating elements. For light to normal use the shorter element heats the top part of the tank. 1 year guarantee (UK).

Aqualoy:

For use in aggressive water areas. 3 year guarantee (UK).

Copper (Popular):

The standard heater for use in soft and normal water areas. 1 year guarantee (UK).

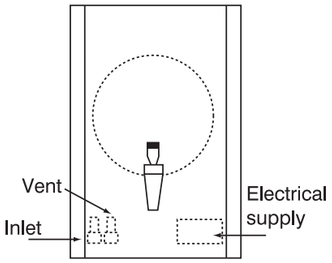
Industrial Water Immersion Heaters:

- Incoloy 825 sheathed elements 21/4" BSP threaded brass heads
- Control thermostat in Incoloy 825 pocket
- Corrosion resistant polypropylene terminal enclosure which can be angularly rotated to any position

A wall-mounted, self-calibrating and self-filling boiling water heater for Industrial and Commercial applications. It can be used for making cups of tea or coffee and even soups and hot snacks. Available in 7 capacity sizes, the 2.5 litre model is ideal for small offices, ranging to the 25 litre model suitable for a busy canteen, community hall or hospital, dispensing up to 150 cups of boiling water on demand and a delivery of 250 cups per hour.

Key Features:

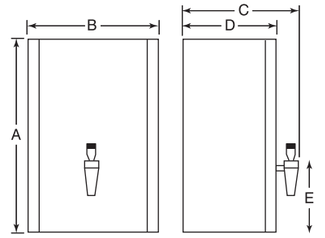
- Stainless steel water tank with fully insulated jacket to minimise heat loss
- Robust corrosion resistant construction
- Brushed stainless steel cover wipes clean
- Neon 'power on' light
- Water temperature is automatically maintained
- Unit is fitted with manual reset safety device to avoid boiling dry
- Manual reset thermostat for detecting excessive steam in the event of water solenoid valve failure
- Condensation chamber for steam-free operation
- Open vent and overflow
- Provides for concealed plumbing and electrical connection
- Operating pressure range between 2bar (29psi) and 10bar (140psi)
- Connects to 13 Amp (220-240V) double-pole fused isolating switch
- 2 year guarantee (UK)
- BEAB, WRAS and CE approved



Installation:

- Electrical connection via 1 metre cable supplied to fused spur
- Water entry bottom/rear via standard 15mm compression fitting
- Open vent and overflow
- Install over sink, draining board, or drip tray

*To help you select the right size water boiler, select the number of cups you will require in the first hour of use from the specification chart below, this will give you the appropriate capacity.



Dimensions SB Professional 2.5L
- A Height 430mm
- B Width 315mm
- C Depth 210mm
- D Depth 125mm
- E Tap Height 185mm

Dimensions SB Professional 5L
- A Height 510mm
- B Width 370mm
- C Depth 250mm
- D Depth 170mm
- E Tap Height 185mm

Dimensions SB Professional 7.5L
- A Height 510mm
- B Width 370mm
- C Depth 250mm
- D Depth 170mm
- E Tap Height 185mm

Dimensions SB Professional 10L
- A Height 565mm
- B Width 425mm
- C Depth 320mm
- D Depth 240mm
- E Tap Height 185mm

Dimensions SB Professional 15L
- A Height 565mm
- B Width 425mm
- C Depth 320mm
- D Depth 240mm
- E Tap Height 185mm

Dimensions SB Professional 20L
- A Height 630mm
- B Width 490mm
- C Depth 350mm
- D Depth 270mm
- E Tap Height 185mm

Dimensions SB Professional 25L
- A Height 630mm
- B Width 490mm
- C Depth 350mm
- D Depth 270mm
- E Tap Height 185mm

Typical Specification: SB Professional

Supply and install a new Redring **SB Professional** wall mounted water boiler as supplied by

Applied Energy Products Ltd.,
Morley Way Peterborough PE2 9JJ.
Sales Hotline: 08709 000420.

Model:	Cat No:
2.5L	22-7138-01
5L	22-7158-01
7.5L	22-7168-01
10L	22-7178-01
15L	22-7188-01
20L	22-7193-01
25L	22-7197-01

- The water boiler shall have a capacity ranging from 2.5 litres to 25 litres and 2.4kW element rating
- The water boiler shall incorporate bottom entry for water, vent and 240 volt single phase electrical supply
- The water boiler shall be surface mounted 15mm water supply to the unit and a 15mm vent which shall drop to discharge to a suitable waste
- The water boiler shall be installed using an isolating valve, and double check valve prior to the inlet of the unit and in an accessible position
- The water boiler should be approved by BEAB for electrical safety, WRAS for connection to mains water systems and CE compliant to the low voltage directive and electro magnetic compatibility directive
- The water boiler shall have a 2 year manufacturer's guarantee for UK use

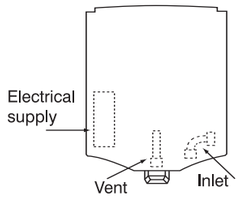
Specification

Product Reference	Catalogue Number	*Storage Capacity (Litres)	*First Hour Delivery (Cups)	Initial Draw Off (170ml)	Initial Draw Off (Litres)	Recovery Rate (Cups/hr)	Electrical Heating Element (kW)	Approximate Weight Kg	Approximate Laden Weight Kg
SB Professional 2.5L	22-7138-01	*2.5	*125	15	2.5	125	2.4	6	8.5
SB Professional 5L	22-7158-01	*5.0	*135	30	5.0	125	2.4	7	12
SB Professional 7.5L	22-7168-01	*7.5	*150	45	7.5	125	2.4	8	15.5
SB Professional 10L	22-7178-01	*10.0	*175	60	10.0	125	2.4	9	19
SB Professional 15L	22-7188-01	*15.0	*200	100	15.0	125	2.4	10	25
SB Professional 20L	22-7193-01	*20.0	*225	120	20.0	125	2.4	12	32
SB Professional 25L	22-7197-01	*25.0	*250	150	25.0	125	2.4	13	38

The **SB²** has been developed to deliver up to 154 cups of hot water every hour. This unique design provides hot water for drinks and beverages instantly eliminating the need for kettles and minimising waiting times. Integral sensors and controls provide automatic fill/top up and temperature management.

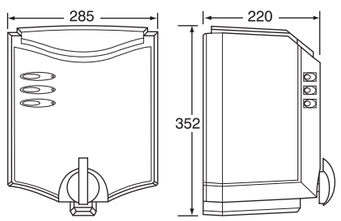
SB² Beverage Water Boiler

Corvette Wall kettle



Installation:

- Wall-mounted with rear or bottom plumbing connection via a standard 15mm compression fitting to the cold water mains
- Incorporates an overflow/vent connection that discharges to a suitable drain
- Supplied with a hook-on wall bracket together with a 3-point screw fixing



Dimensions SB²

Key Features:

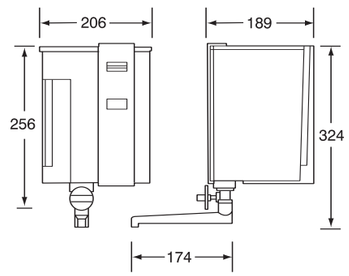
- Available in 2.5 & 4 litre capacities
- Automatic fill and heat
- A single soft touch push-button for on/standby, and a quarter turn rotary tap to dispense boiling water from 97° to 100°C. Three LED's indicate power on, unit full and temperature ready
- Microprocessor controlled for water level and accurate temperature control
- High quality stainless steel sheathed heating elements for long life in aggressive water areas
- CFC-free insulation to maintain water temperature and ensure minimum energy loss
- Thermostatically controlled to automatically set to boiling point when the unit is first switched on
- On/standby function for energy saving
- Integral scale trap to enhance the quality of the beverage
- High impact, durable thermoplastic with WBS approved water tank material
- 2 year guarantee (UK) with an option to extend to 5 years
- BEAB, WRAS and CE approved

Specification

Product Reference	Catalogue Number	Short Code	kW loading @ 230/240V	Capacity (Litres)	Initial draw off (cups)	Recovery rate (cups/hr)	First hour delivery (cups)	Heating time (mins)
SB2 2.5L	22-714401	RSB 2.5	2.0-2.2kW	2.5L	15	130	145	8
SB2 4L	22-714601	RSB 4	2.0-2.2kW	4L	24	130	154	13

• Minimum supply pressure 0.5bar (7psi) • Maximum supply pressure 10bar (145psi) • Electrical connection from suitable ring circuit via a switched/fused outlet.

Plumbing Kit



Dimensions Corvette Wall kettle

The **Corvette** unit delivers boiling water for drinks, beverages and washing up needs from a permanently wired installation. The water supply can be permanently plumbed to the unit providing a totally integrated boiling water supply.

Key Features:

- Quick and easy installation
- Can boil from 1 litre to a maximum of 3.8 litres
- Easy to read water level indicator
- Detachable hose supplied, plumbing in kit required for permanent supply
- Automatic switch off at boiling point with rapid reset
- Neon indicator clearly glows when water is being heated
- Extended spout for extra safe pouring
- Economical to use
- Safety auto steam switch
- 2-stage boil dry element protection
- 3 year guarantee (UK)
- High quality stainless steel sheathed element
- BEAB, WRAS and CE approved

Accessories:

- Plumbing in kit to connect the Corvette directly to the cold water mains (as featured)
- Extended length filler hose 1.7m
- Extended length outlet spout 330mm
- Tap adaptor kit to connect the filler hose to non-standard taps

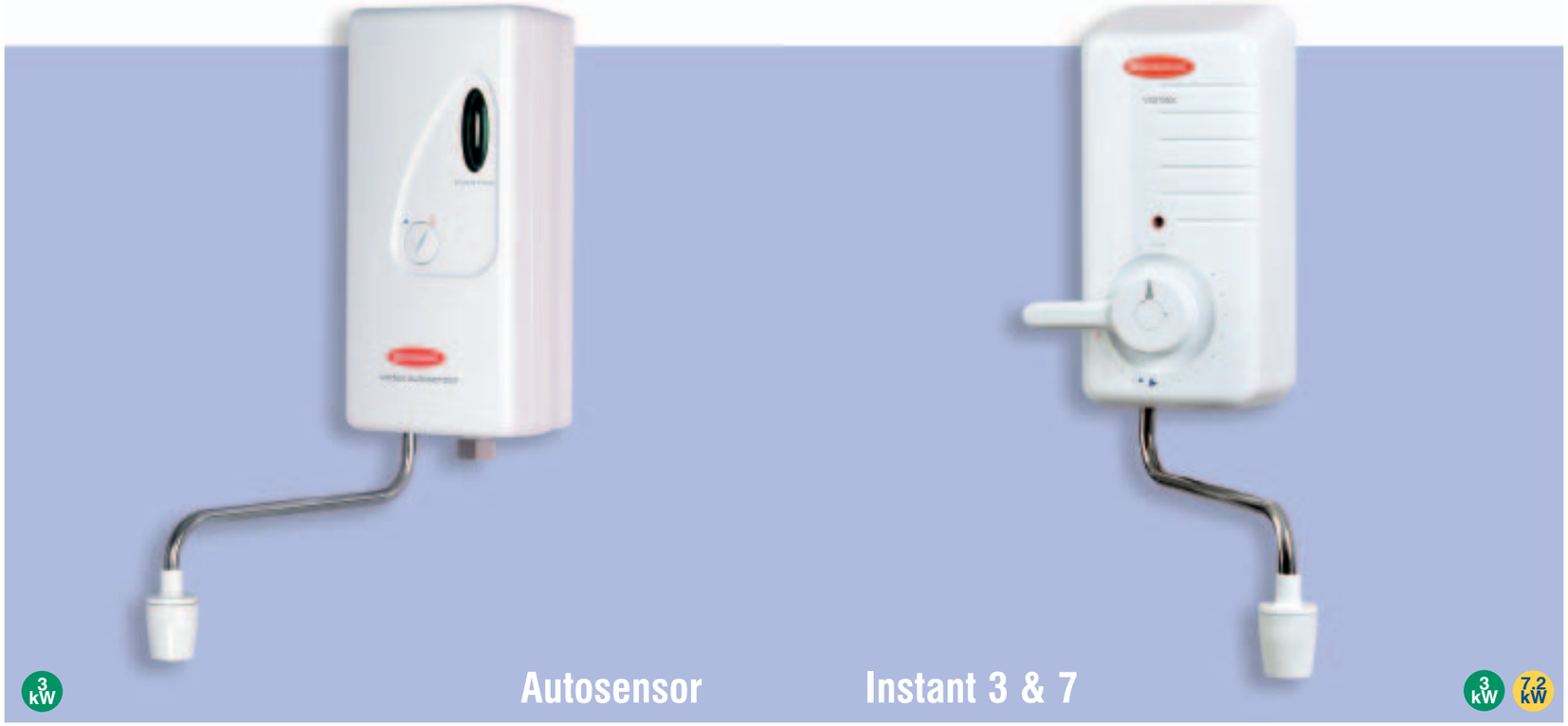
Installation:

- Electrical connection via a fused spur
- Water entry via filler hose supplied, optional plumbing kit, or manually
- The unit can be positioned over a sink or suitable outlet
- Supplied 1m cable, cable tidy, wall mounting plate, wall fixing kit, 1m filler hose and full installation and user instructions

Specification

Product Reference	Short Code	Catalogue Number	Heat Setting	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Corvette	CV1	28-717201	min 1 - max 3.8	1.8 - 2.2	1mm²	13 amps
Accessories						
Plumbing in kit		89-716201	-	-	-	-
Extended length filler hose		89-716202	-	-	-	-
Extended length outlet spout		89-716203	-	-	-	-
Tap adaptor kit		89-716204	-	-	-	-

• Stainless steel base plate.



Autosensor is a unique hand wash unit operated by a no-touch sensor. Ideal for environments where cross-contamination must be avoided, such as hospitals and food preparation areas. The unit is fitted with a patented non-scaling vortex spray outlet and an automatic shut-off to eliminate waste water.

WRAS APPROVED PRODUCT · 3 YEARS GUARANTEE · BEAB Approved · CE

Unique, non-scaling patented Vortex spray head

Installation Vortex Spray:

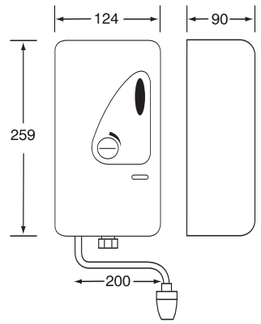
- Direct connections to water mains
- Standard 15mm pipework
- Top, bottom or rear cable entry
- Standard BSP 1/2" connections
- Full fixing pack supplied

Key Features:

- Touch free hygienic operation preventing cross contamination
- Infra-red sensor activates water output for extra economy
- Power on LED indicator
- Timed shut-off set at approximately 20 seconds
- Vortex spray head is non scaling and maintenance free
- Swivel 200mm stainless steel spray arm
- Overheat protection
- Fully temperature stabilised
- No standing heat loss
- Compact ergonomic design
- 3 year guarantee (UK)
- BEAB, WRAS and CE approved

Accessories:

- Extended length spray arm, 380mm
- Short length spray arm, 160mm



Dimensions Autosensor

Specification

Product Reference	Short Code	Catalogue Number	Touch Free Time Cycle Cut-off	kW Loading @ 240V	Recommended Cable Size	Recommended Fuse Rating
Autosensor	AV3	43-591015	20 - 25 seconds	3	1.5mm²	13 amps
Extended length spray arm, 380mm		85-768322	-	-	-	-
Short length spray arm, 100mm		85-768330	-	-	-	-

• Operating water pressure 0.7 - 7bar (10 - 100psi) • Water pressure operated power switch

Economical and instant, these hand wash units are compact and simple to operate with a single on/off and temperature control lever. They are also fitted with our patented Vortex spray outlet which eliminates the need for costly maintenance due to the build-up of scale in hard water areas.

WRAS APPROVED PRODUCT · 3 YEARS GUARANTEE · BEAB Approved · CE

Unique, non-scaling patented Vortex spray head

Installation Vortex Spray:

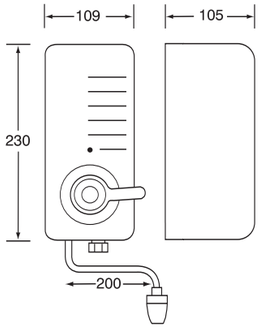
- Direct connections to water mains
- Standard 15mm pipework
- Top, bottom or rear cable entry
- Standard BSP 1/2" connections
- Full fixing pack supplied

Key Features:

- Compact ergonomic design
- Single control lever for on/off and temperature selection
- Vortex spray outlet is non scaling and maintenance free
- 'Heat on' neon indicator
- Swivel 200mm stainless steel spray arm
- Easy clean polar white finish
- Overheat protection
- Fully temperature stabilised
- No standing heat losses
- 3 year guarantee (UK)
- BEAB, WRAS and CE approved

Accessories:

- Extended length spray arm, 380mm
- Short length spray arm, 160mm



Dimensions **Instant 3 & 7**

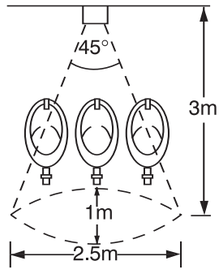
Specification

Product Reference	Short Code	Catalogue Number	Heat Setting (kW)	kW Loading @ 230-240V	Recommended Cable Size	Recommended Fuse Rating
Instant 3	13V	43-769715	3	2.7 - 3	1.5mm²	13 amps
Instant 7	17V	43-769915	7.2	6.6 - 7.2	4 / 6mm²	30 amps
Extended length spray arm		85-768322	-	-	-	-
Short length spray arm		85-768330	-	-	-	-

• Operating water pressure 0.7 - 7bar (10 - 100psi) • Water pressure operated power switch

Autoflush is a compact, unobtrusive automatic urinal flush controller which maintains hygiene whilst eliminating water wastage as required by Water Bylaw 83.

Autoflush requires no electrical mains connection and is supplied with a dedicated long-life lithium battery.



Installation Autoflush

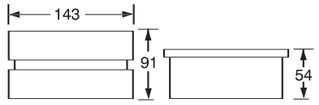
Autoflush

Key Features:

- A powerful PIR sensor detects when someone approaches the urinals and switches a solenoid valve to open, allowing water to flush to the cistern
- Typical water savings of over 70% per annum. Capital costs maybe recouped in less than two years
- Built-in cleansing flush (every 12 or 24 hours) for maximum hygiene during unoccupied periods
- Choice of 10, 20 or 30 minute timed flow after detection (factory set to 30 minutes)
- No mains electrical connection required, long life lithium battery supplied. Red L.E.D indicates when battery is low
- Typical applications: Offices, Public Conveniences, Hotels, Restaurants, Leisure Facilities, Factories
- 1 year guarantee (UK)
- CE approved

Accessories:

- Vandal proof cover
- Spare Battery
- Note: Water Bylaw 83 states that where urinals are installed there must be a method of controlling the flushing, preventing inflow during times when they are not being used.



Dimensions Autoflush

Specification

Product Reference	Short Code	Catalogue Number	Sensor	Sensor Range	Battery Pack Supplied	Solenoid Valve
Autoflush	AF1	27-900001	Passive infra-red	Up to 4m	10.5V, 3.6Ah lithium long life	9V DC latching (0-12bar)
Spare Battery		96-900102	-	-	-	-

• Non-corrosive Polar White ABS plastic box • Water connections: 15mm compression • Recommended Cable: 2 core, CSA 0.5mm² (Outer diameter 5.4mm)
• Approvals: Restrictors - WRAS, Valve WRAS, Battery UL • Note - Designed to be used with a cistern. Unsuitable for pressurised systems.

Automatic Hand Dryers

Hygiene is an area where warm air dryers score significantly over paper or linen towels. Germ-free warm air is an extremely hygienic drying medium – with no risk of cross-infection between users. Hand dryers are approved by the Health and Safety Executive as well as the Ministry of Defence for use in commercial and office environments. Also accepted by the National Health Service resulting in increasingly widespread use in British hospitals.

BEAB Approved

AD1 Light to medium installations

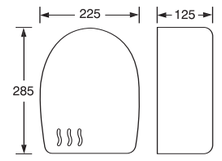
- Hand drying only
- Ideal for food preparation areas
- Class 2 insulation, so no need to earth
- Infra-red no 'touch' on/off sensor to prevent cross contamination
- 2 year guarantee (UK)
- IP24 rating
- BEAB and CE approved

AD10 Light to medium installations

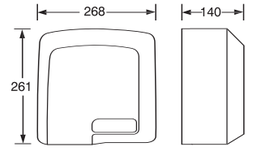
- Hand drying only
- Ideal for surgeries, clinics and veterinary practices
- Fully automatic
- UK manufactured
- 3 year guarantee (UK)
- IP21 rating
- BEAB and CE approved

AD10S Light to medium installations

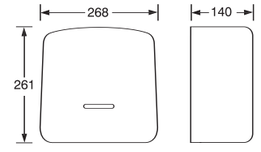
- Hand drying only
- Stainless steel cover
- Easy to clean
- Fully automatic
- UK manufactured
- 3 year guarantee (UK)
- IP21 rating
- BEAB and CE approved



Dimensions AD1



Dimensions AD10



Dimensions AD10S

Specification

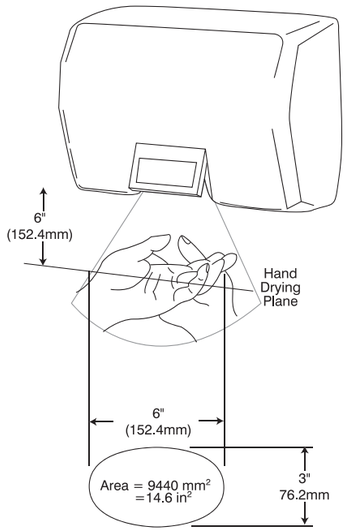
Product Reference	Short Code	Catalogue Number	Weight (Kg's)	Total Loading @ 240V	Motor Watts	Fan Motor Speed (RPM)	Air Volume M³/Hr	Air Velocity M/Sec	Peak Air Temp Rise °C	Noise Level at 1 mtr cb (A)
Autodry1	AD1	56-751501	1.9	1.5 kW	60	2500	120	15	60	63
Autodry10	AD10	56-750540	2.5	1.7 kW	100	2400	180	18	40	67
Autodry10S	AD10S	56-750541	2.5	1.7 kW	100	2400	180	18	40	67

• Heating element closed coil nickel chromium wire • Cover Stainless Steel (AD10S only) • Sensor range 150mm • Impact resistant plastic

The reliable range of Redring automatic dryers provides efficient and hygienic hand and face drying.

With fully automatic operation the **AD20** is ideal for installation where noise needs to be kept at a minimum whilst the **AD30** provides increased airflow for faster hand and face drying. For installation at the busiest washrooms the **AD50** is highly durable making it ideal for installations in airports, factories and motorway service stations.

BEAB Approved



Dimensions AD50C

Automatic Hand & Face Dryers

Key Features – AD20 Medium use installations

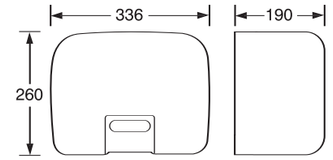
- Hand and face drying
- Quiet operation – ideal for hospital wards or libraries
- Fully automatic
- Cover cast aluminium alloy with epoxy paint
- UK Manufactured
- 3 year guarantee (UK)
- IP23 rating

AD30 Medium use installations

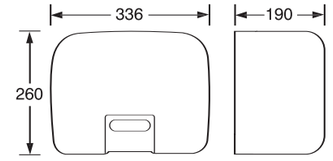
- Hand and face drying
- Fast drying time – ideal for restaurants and hotels
- Fully automatic
- Cover cast aluminium alloy with epoxy paint
- UK Manufactured
- 3 year guarantee (UK)
- IP23 rating

AD50C High use installations

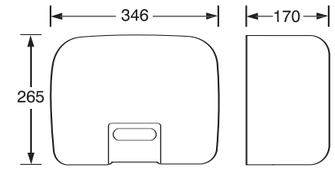
- Hand and face drying
- High volume air-flow for faster drying
- Ideal for motorway services, factories, schools & sports centres
- Fully automatic
- Cover cast iron vitreous enamelled
- UK Manufactured
- 3 year guarantee (UK)
- IP23 rating



Dimensions AD20



Dimensions AD30



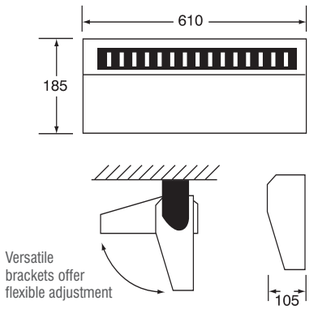
Dimensions AD50C

Specification

Product Reference	Short Code	Catalogue Number	Weight Kg	Total Loading @ 240V	Motor Watts	Fan Motor Speed RPM	Air Volume M^3/Hr	Air Velocity M/Sec	Peak Air temp Rise °C	Noise Level at 1 mtr cb (A)
Autodry20	AD20	56-751303	6.5	2 kW	60	2800	150	12	50	64
Autodry30	AD30	56-751404	6.5	2.4 kW	200	6000	220	22	50	78
Autodry50C	AD50	56-751118	15	2.5 kW	300	7000	250	25	50	78

- Sensor range 150mm

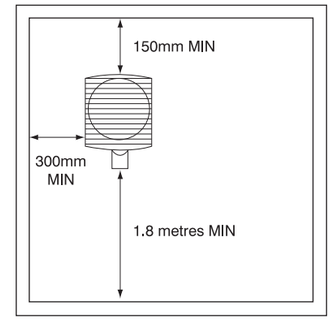
The **Sunscreen range** of fan assisted hot air curtains, designed for installation above external doors, effectively combats incoming cool air.
The **Sunscreen** can also run cold, forming a barrier against dust and giving a cool refreshing breeze in Summer.



Dimensions Sunscreen

3 kW 4.5 kW **Sunscreen** **Sunfan** 3 kW

Sunfan is a robust 3kW high volume air throughput commercial/industrial wall mounted fan heater designed to provide highly efficient heating in winter, or cool air circulation in Summer.



Siting

Installation Sunfan

- Fan heating is not recommended for rooms greater than 5 metres (15ft) high.

Key Features:

- High volume throughput Sunscreen 3 or 4.5kW 150 cu.ft. per minute
- Integral switching simplifying installation
- Smooth running motors and balanced tangential fan units for quiet and efficient operation
- Key hole slots are provided for ease of installation and no back insulation is necessary when mounting direct to wall
- Brackets are provided where adjustment for the air flow is required, i.e. when mounted at high level to serve as a multi-directional fan heater
- Built-in thermal cut-out for added safety
- Supplied with fully adjustable wall mounted brackets which offer flexible adjustment
- 1 year guarantee (UK)
- BEAB and CE approved

Installation:

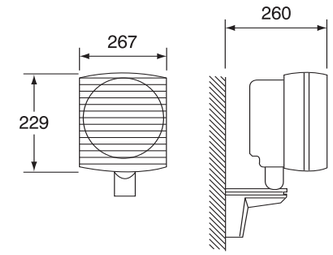
- Installation notes: Wall mounting requires holes to be drilled in the wall to suit the location of the mounting holes at the rear of the heater, otherwise the mounting brackets should be used. Ideally heaters should be mounted directly above the door but in any case not more than 2.25 metres high and not less than 1.8 metres high.
- Single end connection conduit or cable

Key Features:

- High air volume throughput of 300m3/hour
- Quiet running, totally enclosed motor
- Wall mounted with 2 part self supporting bracket
- Multi-directional adjustment of 45° vertically and 150° horizontally with single screw locking
- Remote control switch available as an option to provide a cool air circulation facility
- 1 year guarantee (UK)
- BEAB and CE approved

Accessories:

The dual control switch can be used to control the Sunfan remotely, switching it both on and off and to fan only, for cool air circulation in the Summer



Dimensions Sunscreen

Specification

Product Reference	Short Code	Catalogue Number	Colour	kW Loading @ 240V	Switching	Recommended Cable Size	Recommended Fuse Rating
3kW Sunscreen	RS1	50-813905	Grey	3kW	Cold, 1.5kW, 3kW	2.5mm²	13A
4.5kW Sunscreen	RS3	50-813906	Grey	4.5kW	Cold, 2.25kW, 4.5kW	4.0mm²	13A

Sunscreen • Element - Open coil supported by ceramic insulators • Zinc coated steel, powder coated body • Shaded pole motor

Specification

Product Reference	Short Code	Catalogue Number	kW Loading @ 230V	kW Loading @ 240V	Fan only @ 1m	Fan only @3m	Heater & fan @ 1m	Heater & fan @3m	Element Type
Sunfan	SF3	50-816401	3kW	3kW	49.5dBA	41.4dBA	47.9dBA	40.5dBA	Open wound spiral
Dual Control Switch		82-815906	-	-	-	-	-	-	-

Sunfan • Flame retardant polycarbonate / glass filled nylon body • Single phase, 4 pole motor • Two tone grey (neutral colours) • Safety features - Two thermal cut-outs, double insulated.

Sunspot is an efficient 2.25kW fan heater for high level wall mounting providing directional localised heat with adjustment through 90°. There is a cool air recirculation facility for summer.
Sunbase is an integrally controlled space saving fan heater which provides warmth in winter or cool air in summer. Specially designed to occupy the space beneath cupboards, counters, display units or plinth mounted in fitted kitchens.

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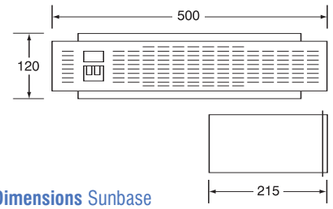
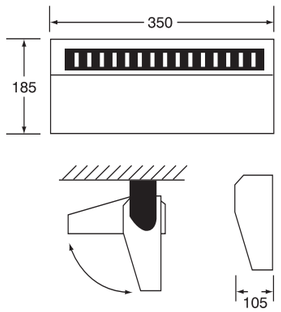
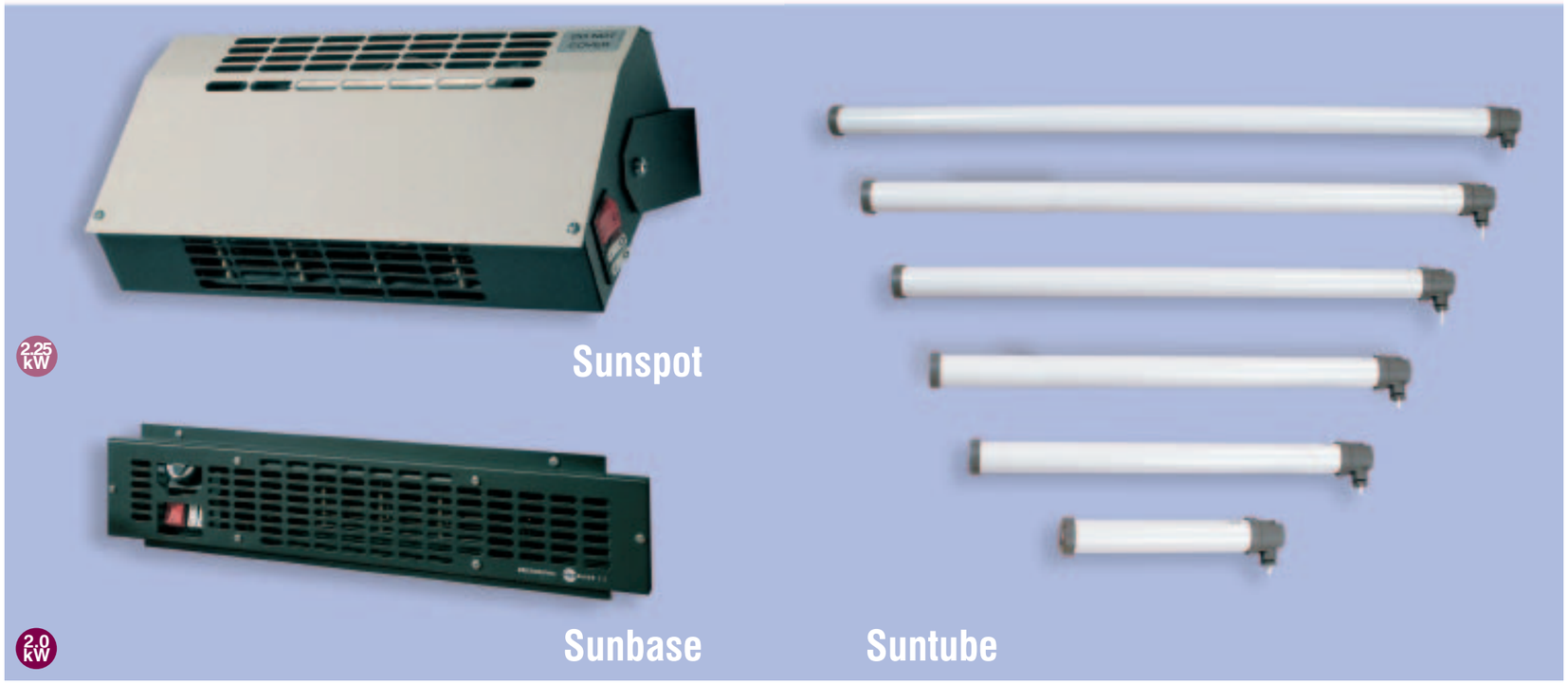


Dimensions Sunbase



Dimensions Sunspot



Suntubes are the perfect answer where a steady energy efficient source of heat is needed, providing gentle background warmth and frost protection for both domestic and commercial applications. They are highly effective as window demisters and for horticultural use, providing invaluable, effective heating and frost protection in greenhouses and conservatories.

1 YEAR GUARANTEE · BEAB Approved · CE

Key Features:

Sunspot

- High volume throughput, 130 cu. ft. per minute
- Integral switching 1.1kW, 2.25kW and cold settings simplifying installation
- Smooth running motor with balanced tangential fan unit for quiet and efficient operation
- Built-in thermal cut-out for added safety
- Wall mounting fittings included
- 1 year guarantee (UK)
- BEAB and CE approved

Sunbase

- Saves valuable wall and floor space
- Low level mounting gives good heat circulation
- SB1 integral switching simplifies fitting in existing units
- Built-in variable capillary thermostat for convenience and energy efficiency
- 2 heat settings 1kW - 2kW plus fan only operation
- Built-in neon indicator
- Over temperature cut-out for safety
- Central support flange for easy installation
- Fit as initial equipment or retrofit in existing units
- BEAB and CE approved

Key Features:

- 60-360W outputs @ 240V
- A range of 6 lengths and loadings
- Complete with universal mounting brackets for floor or wall fixing and 1m of white cable
- Optional interlinking kit available for multiple installations (100mm mounting centres)
- Can be stacked using purpose designed inter-linking kit for greater degree of heating
- 1 year guarantee (UK)
- BEAB and CE approved

Note:

We recommend the use of guards for additional security in sensitive areas such as schools, hospitals and old peoples homes. These can be obtained from C.Aino Ltd.
Tel: 0207 987 1184 quoting the short guard code from table below.

Specification

Product Reference	Short Code	Catalogue Number	Colour	kW Loading @ 240V	Heat Setting	Recommended Cable Size	Recommended Fuse Rating
Sunspot	RS2	50-813907	Grey	2.25kW	1.1 - 2.2kW	1.5mm²	13 amps
Sunbase	SB1	50-815404	Grey	2.0kW	1.0 - 2.0kW	1.5mm²	13 amps

Sunspot • Element - Open coil supported by ceramic insulators • Zinc coated steel, powder coated body • Shaded pole motor • Grey colour • Single end connection conduit or cable
Sunbase • Element - Open coil supported by ceramic insulators • Zinc coated steel, powder coated body • Grey colour • Rear cable connection

Specification

Product Reference	Catalogue Number	Suntube Short Code	Guard Short Code	Rating 230-240V	Length (mm)	Diameter (mm)	Depth (mm)
Suntube 410	51-731110	ST1	STG1	60 Watts	410	52	75
Suntube 670	51-731101	ST2	STG2	120 Watts	670	52	75
Suntube 980	51-731102	ST3	STG3	180 Watts	980	52	75
Suntube 1280	51-731103	ST4	STG4	240 Watts	1280	52	75
Suntube 1590	51-731105	ST5	STG5	300 Watts	1590	52	75
Suntube 1890	51-731104	ST6	STG6	360 Watts	1890	52	75
Interlinking Kit	85-731506	-	-	-	-	-	-

Suntube • Elements - Metal sheathed throughout • Polyester epoxy powder coated aluminium body for corrosion resistance • Two Tone Grey colour • High temperature glass filled nylon end caps/fixing brackets • Single end connection, conduit or cable

Sunslim is a low cost, robust and easy to install radiant heater. Its tilt mounting allows heat to be localised, or directed at a general area. The **Sunslim** can be wall-mounted or ceiling hung.

Key Features:

- Instant, directional radiant heat
- Available in 2 and 3kW versions
- Completely silent in operation
- Lightweight, robust and good looking
- Corrosion resistant
- Suitable for bracket or chain mounting
- Easy to install
- Overhead mounting means no loss of floor space
- Ideal for localised heating in large covered areas
- 1 year guarantee (UK)
- CE approved

Installation:

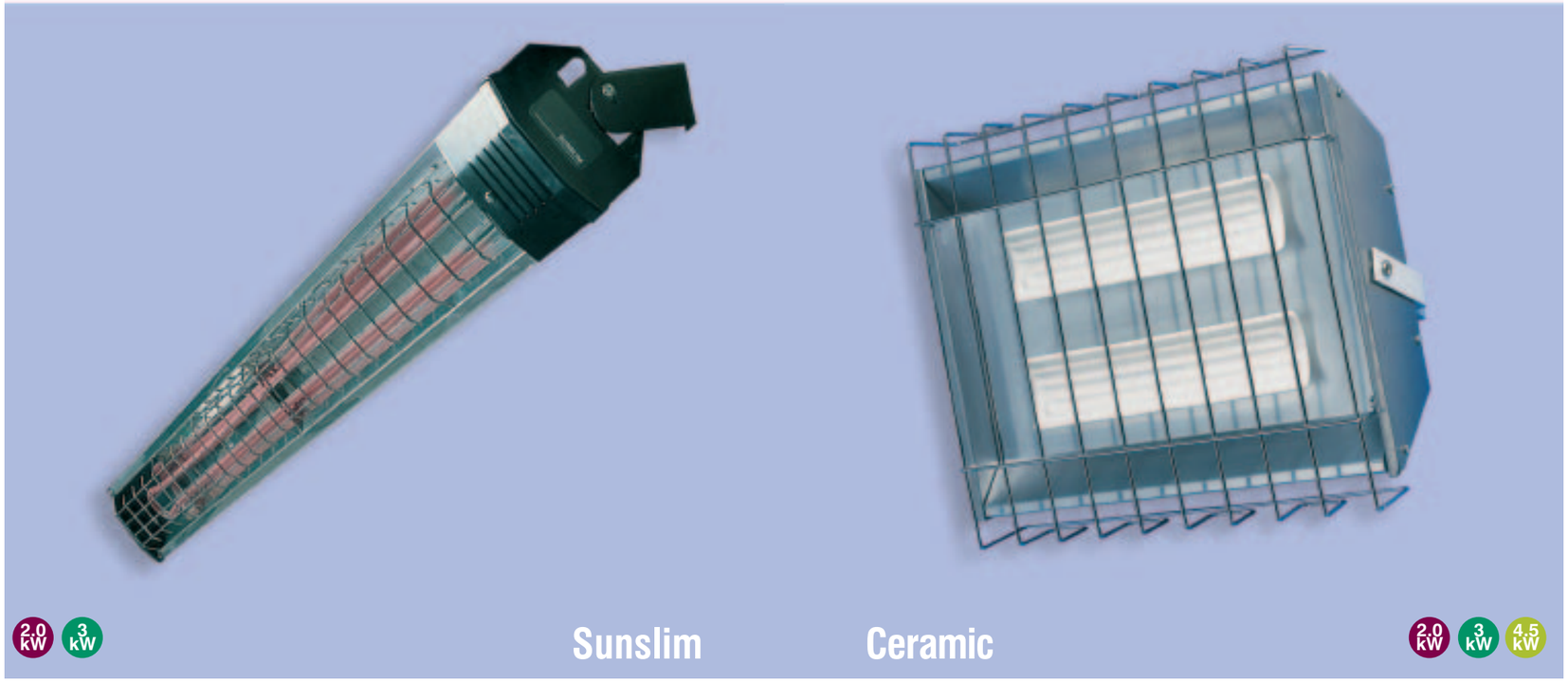
When planning a Radiant Heating installation, refer to Table 1 to select the application and type of environment you wish to heat.

Table 2 shows the area that can be heated by a single Sunslim Radiant Heater in 3kW and 2kW variants.

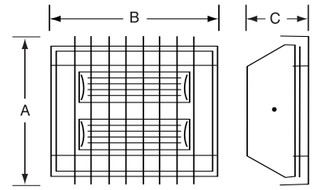
Note: Heating areas can be overlapped to achieve the necessary heating index.

Installation Notes:

- High temperature cable must be used. We recommend the use of a residual current device (RCD)



Long wave infra-red heaters offer highly efficient, silent, glare free localised heat. These heaters incorporate dual ceramic emitters to rapidly convert electrical energy into heat energy without producing light.
With no moving parts these heaters are virtually maintenance-free.



Dimensions Ceramic Model 2/3kW
▸ A Height 340mm ▸ B Width 376mm ▸ C Depth 140mm

Dimensions Ceramic Model 4.5kW
▸ A Height 440mm ▸ B Width 376mm ▸ C Depth 140mm

Table 1 - Sunslim Heating Index

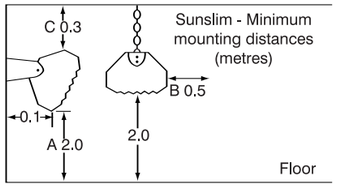
Applications	Heating Index
Offices, Canteens, Waiting Rooms, Entrance Halls, Dressing Rooms	10-14
Shops, Meeting Halls, Recreation Rooms, Clubs	12-16
Workshops, Garages, Public Buildings	14-18
Warehouses, Loading Bays, Hangars	16-20
Churches	18-20

Table 2 - Sunslim Heated Area

Heating index	3kW			2kW		
	H	L	W	H	L	W
10	4.0	5.24	5.49	3.3	4.11	4.53
12	3.6	4.88	4.94	3.0	3.84	4.12
14	3.2	4.51	4.39	2.7	3.57	3.70
16	3.5	4.33	4.12	2.5	3.38	3.43
18	2.8	4.14	3.84	-	-	-

H = mounting height (determined by on-site requirements), L = length of the heated area, W = width of the heated area

Installation Sunslim



Specification

Product Reference	Short Code	Catalogue Number	Rating 230-240V	A Height	B Width	C Depth
2kW Sunslim	SL2	51-804902	2kW	108mm	1215mm	71mm
3kW Sunslim	SL3	51-804903	3kW	108mm	1671mm	71mm

Sunslim • Element - Metal sheathed throughout • Zinc coated steel body • Chrome plated steel guards • Matt black with bright zinc body • Single end connection • Anodised aluminium reflector • Installation notes: High temperature cable must be used. We recommend the use of a residual current device (RCD)

Key Features:

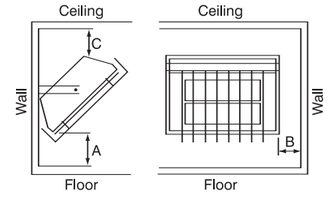
- Durable ceramic emitters which rapidly convert electrical energy into heat energy
- Available in 2, 3 and 4.5kW versions
- No fans or moving components so no dust contamination to the environment
- Low maintenance
- Good vibration resistance
- Fitted with guards for personal protection
- Robust fitting brackets
- Unique temperature spot indicator (green when cold, black when hot)
- 1 year guarantee (UK)
- CE approved

Area of Coverage at Minimum Mounting Height

Heating index	Applications	2kW	3kW	4.5kW
130-150W/m²	Shops, Meeting Halls	7.2m²	12.0m²	18.8m²
150-170W/m²	Offices, Canteens	6.8m²	11.3m²	17.7m²
170-200W/m²	Workshops, Garages	6.0m²	10.0m²	15.7m²
220-240W/m²	Churches	4.7m²	7.8m²	12.3m²

Specification

Product Reference	Short Code	Catalogue Number	Rating
2 kW Ceramic	CR2	71-821541	2kW
3 kW Ceramic	CR3	71-821542	3kW
4.5 kW Ceramic	CR45	71-821543	4.5kW



Installation Ceramic

For mounting dimensions please refer to the specification table below.

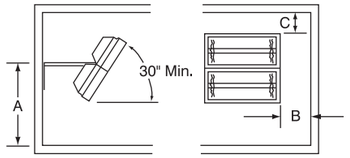
Mounting Dimensions

Mounting Dimension A	Mounting Dimension B	Mounting Dimension C
1800	300	200
2500	300	300
3000	500	500

The sensation and welcome of instant heat right where it's needed. **Sunquartz short wave infra-red heaters** warm people, not the air. Their uses are endless, from warehouses to churches. These efficient sun-like heaters can penetrate damp air with little waste to the atmosphere.

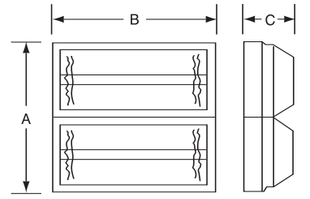
Key Features:

- Up to 90% efficient at converting electricity into energy
- Instant visible heat at switch on
- Penetrates damp air with minimum atmospheric heat loss
- Absolutely silent in operation
- Long range heat projection
- Modular design blends with all environments
- Lightweight and silent
- Fitted with wire guard for safety
- 1 year guarantee (UK)
- CE approved



Installation Sunquartz

- High temperature cable must be used
- Miniature circuit breakers (type 3) must be used
- The heaters must never be rotated to face a wall, ceiling or floor
- Units may be installed from the ceiling but MUST be mounted at an angle
- Maximum benefit is gained from receiving heat from both sides
- Prior to installation check that no hazardous vapours will be present in the immediate atmosphere



Installation Sunquartz

- High temperature cable must be used
- Miniature circuit breakers (type 3) must be used

Table 1

Sunquartz - Heating Index (K) Recommended Applications	
130 - 170	Shops, Meeting halls, Recreation rooms, Clubs
150 - 170	Offices, Canteens, Waiting rooms, Entrance halls
150 - 200	Workshops, Garages, Public buildings
180 - 220	Warehouses, Loading bays, Hangars
220 - 240	Churches

Automatic Controller:

This automatic controller, which senses movement by passive infra-red techniques, will automatically switch on the Sunquartz whenever movement is detected within its range. The heater will remain switched on for a preset time after the last movement is detected and then will switch off automatically.

The unit is suitable for 220V/240V single phase operation and will switch 500W-6000W of heaters.

Soft start circuitry is incorporated to reduce the inrush current allowing cables and fusegear to be rated as for resistive loads and extending lamp life. The unit is wall mounted and its passive infra-red sensor must face the same directional plane as the heater. The P.I.R. range is adjustable and a temperature hold off facility will inhibit operation when ambient temperatures exceed a value selected between 10° and 20°C.

Specification:

- **Heaters**
  Tungsten halogen lamps, 240/230 volt rating, with ruby red quartz outer sleeve, 7000 hours rated average life
- **Reflectors**
  Bright rolled, specular 99.8% aluminium, electro-chemically brightened
- **Case**
  Electro zinc coated steel
- **End Castings**
  High pressure die cast aluminium
- **Finish**
  Epoxy polyester powder paint
- **Colour**
  Case: BS4800 00A13 White side bars and brackets: BS4800 0013 Grey
- **Connection**
  Rear connection to terminal block via cable clamp
- **Voltage**
  The 1 and 2 lamp units are suitable for a 230-240V single phase supply only. The 3 lamp units are supplied wired for 230-240V single phase supply, but can be connected to a 380-415 volt three-phase supply

Installation:

Use the following procedure when planning a SunQuartz heating installation for buildings having a floor area of up to 500m²

1 Make a scaled plan of the area to be heated, noting possible mounting heights and positions

2 Determine the overall heating requirements

$$\frac{W \times Y \times K}{1000} = \text{Total kW loading}$$

Key:

W = Length to be heated in metres
Y = Width to be heated in metres
K = Intensity watts per m², determined from Heating Index Table 1

3 Determine the number of SunQuartz heaters by dividing the kW rating of the selected units into the total kW loading from stage 2

Dimensions

Model	Dimensions mm			Min Mounting Distances		
	A Height	B Width	C Depth	A mm	B mm	C mm
Sunquartz 1.0kW	185	390	115	1800	300	200
Sunquartz 1.5kW	185	390	115	1800	300	300
Sunquartz 2.0kW	185	390	115	2500	300	300
Sunquartz 3.0kW	340	390	115	3000	500	500
Sunquartz 3.0kW 3 lamp	510	390	115	3000	500	500
Sunquartz 4.0kW	340	390	115	3000	500	500
Sunquartz 4.5kW	510	390	115	3000	500	500
Sunquartz 6.0kW	510	390	115	4000	500	500

Specification

Product Reference	Short Code	Catalogue Number	Rating	Number Of Lamps	Spare Tube Number
55-821202	SQ 1.5	55-821202	1.5 kW	1	85-821421
55-821203	SQ 2.0	55-821203	2.0 kW	1	85-822171
55-821204	SQ 3.0	55-821204	3.0 kW	2	85-821421
55-821205	SQ 4.0	55-821205	4.0 kW	2	85-822171
55-821207	SQ 4.5	55-821207	4.5 kW	3	85-821421
55-821208	SQ 6.0	55-821208	6.0 kW	3	85-822171
Automatic Controller	85-822084	-	-	-	

Total Service Solutions

When buying Redring products, you already know that they will be of the highest quality and will provide many years of trouble-free operation.

However, for peace of mind, Redring's after sales service is second to none. Most products are covered by a full parts and labour guarantee of up to 3 years* from the date of purchase, so should the product become faulty within the guarantee period, it will be replaced with a new product or repaired by dedicated service engineers, totally free of charge.

As market leader, Redring prides itself on engineering excellence and the range of services offered to customers.

Sales Hotline: 08709 000420
Sales Fax: 08709 000520
www.redring.co.uk

*Conditions apply.

Technical Services

Our Technical Services Call Centre is staffed by a team trained in diagnosing and rectifying potential concerns over the phone, whether or not the product you have purchased is in guarantee.

If for any reason they are unable to solve the problem by phone, they will brief an engineer, prior to the visit, to ensure that wherever possible, the problem is fixed first time.

The team also provide advice on application, installation and operation, ensuring that our customers receive the full benefit from purchasing a Redring product.

For further information
Tel: 08709 000430
Fax: 08709 000530

Application Design

A free design service is available to customers wishing to use Redring, Xpelair or Creda Heating products in their building projects. Design work can be carried out from scaled architect's plans (1:100 min), construction and insulation data of the property, ventilation requirements etc. these should be supplied with any request for design work. Applied Energy engineers are experienced in all areas of water heating, space heating and ventilation and are able to offer: -

- Consultation to select the optimum design and product specification of the job
- Calculation of building and room heat losses to CIBSE and other standards, water heating and ventilation requirements
- Designs that meet both building and health & safety regulations where required
- Sizing and selection of products to your own or national specification requirements
- Estimated operating and equipment costs
- Energy ratings carried out on dwellings based on NHER and SAP

For further information
Tel: 01782 385779
Fax: 01782 385893

Spares

Regular maintenance and servicing of Redring products is recommended to ensure the longevity of your Redring product. From time to time it may be necessary to replace components to extend the life of the product. Redring provide a wide range of spare parts covering current and old products, making maintenance simple and effective.

For further information
Tel: 08709 000420

Export

Redring is a great British brand in every sense of the word but for many years it has been a world leader in water heating and space heating with sales in excess of fifty countries world-wide.

Redring has achieved this by taking into consideration global market requirements and ensuring products are developed to meet these needs. We have developed products for specific countries and regions, taking into consideration approvals, electrical supply and climate. For further details either call your local Redring distributor or

For further information
Tel: +44 (0)1733 456 737
Fax: +44 (0)1733 456 727